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DAN A. HUGHES COMPANY, L.P.

DAHC-SAN FRANCISCO CR. #1
RIO GRANDE COUNTY, COLORADO

DRILLING WELL PLAN

SEPTEMBER 7, 2011

Prepared By:_____
JEFF ILSENG P.E.
OPERATIONS MANAGER

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- Vendors List
- AFE
- Survey Plat
- Water Board Letter
- Drilling Permit
- Surface Casing Exception
- Wellhead Configuration

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1.0 GENERAL INFORMATION

WELL NAME:	DAHC- SAN FRANCISCO CR. #1		
COUNTY:	Rio Grande County, Colorado		
WI:	Dan A. Hughes Co.		
LOCATION:	NW1/4 SE1/4 SECTION 24-T39N-R5E		
API NUMBER:			
PERMIT NUMBER:			
WATER DEPTH:			
CLASSIFICATION:	Wildcat		
PROPOSED TD:	6600'		
TARGET HORIZONS:	Dakota & Morrison		
AFE NUMBER:			
DRY HOLE COST :			
COMPLETED COST:			
EST. DRILLING DAYS :	25 days Dry Hole / 20 days Casing		
RIG:	Aztec Drilling Rig #545		
ENGINEER:	Jeff Ilseng:	Off Hm Mob	(361) 358-3752 [redacted]
GEOLOGIST:	John Humston	Off Hm Mob	(361)358-3752 [redacted]

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2.0 INTRODUCTION

The DAHC-San Francisco Cr. #1 is a Wildcat well planned to test the Dakota & Morrison Sands.

Set 16" conductor @ 80'

Drill out with 12-1/4" bit & run 9-5/8" 36# J55 LT&C surface casing to 1100'.

Will drill out w/7-7/8" bit to a Depth of 6600' & run 5-1/2" 17# J55 LT&C casing.

DIRECTIONS:
From Del Norte, Colorado, Turn south off of Hwy 160 onto French Street. Travel south on French street which will turn into CR 13 which will also be called San Francisco Creek Road upon entering subdivision approx. 6.5 miles. Turn right(west) on Wagon Wheel Road and go 0.47 miles to rig on left.

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3.0 OPERATIONS

3.1 HOLE SECTION: 12-1/4", 0' - 1100'

Note: Notify Authority's 12 hrs prior to running casing. Document on the Daily Drilling Report.

1. Set 16" conductor @ 80'. PU 12-1/4" bit. Drill to 1100' with BHA. Take inclination surveys every 250'. Freshwater protection depth is _____'.

2. Run 9-5/8" 36# J55 LT&C casing with float equipment. (Note: Centralize w/ 2 Turbolizers on each of the bottom 4 jts & 1 turbolizer every 4th joint to Surface). Cement the 9-5/8" Casing to surface as per recommendation while reciprocating pipe 20'.

3. WOC.

4. Install casing head. NU 5M BOP's . Test BOP's..

3.2 HOLE SECTION: 7-7/8", 1100' – 6600'

1. PU 7-7/8" bit & stabilizers & drill out cement & float equipment. Drill 10' of new formation. Test shoe to 10.0# EMW. Attach Mud logger @ 1100'. Break over mud @ 2000' to 6 cc. Drill ahead to 6600' and POOH. Make sure to make frequent wiper trips every 24 to 36 hrs while drilling.

2. Log well according to Geologist.

3. RIH w/5-1/2" 17# J55 LT&C from 0' – 6600'. (Note: Centralize w/ 2 Turbolizers on each of the bottom 4 jts & 2 per joint 100' above & below any productive pay. Reciprocate pipe 20' while cementing per recommendation while reciprocating pipe 20'.

4. WOC. ND BOP's & drop casing slips. Weld on head & NU tree. RDMO drilling rig.

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3.3 Drilling Plan

See Attached Drilling Plan Summary Sheet.

3.4 Wellbore Diagram

See Attached Wellbore Schematic.

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DAHC-SAN FRANCISCO CR. #1
Staked Location: NW1/4 SE1/4 SECTION 24-T39N-R5E
RIO GRANDE COUNTY, COLORADO

DRILLING PLAN

ESTIMATED TOPS OF GEOLOGICAL MARKERS:

FORMATION	DEPTH	PROSPECTIVE
Conejos	5000'	None
Blanco Basin	5722	None
Mancos	5845	Oil
Dakota Silt	6080	Oil
Morrison	6230	Oil
Junction Creek	6500	Oil

Note: No fresh water zones are expected

CASING PROGRAM:

HOLE SIZE	CASING SIZE	FROM	TO	WEIGHT	GRADE	THREAD	Condition
20"	16"	0'	80'	Conductor			
12-1/4"	9-5/8"	Surface	~1,100'	36#	J-55	LT&C	New
7-7/8"	5-1/2"	Surface	~6600'	17#	J-55	LT&C	New

CASING PROGRAM:

CASING SIZE	WEIGHT	GRADE	THREAD	COLLAPSE	BURST	JT STRENGTH	BODY YIELD
20"	Conductor						
9-5/8"	36#	J-55	LT&C	2020	3520	453,000	564,000
5-1/2"	17#	J-55	LT&C	4910	5320	247,000	273,000

All casing strings below the conductor shall be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% minimum internal yield.

MUD PROGRAM:

TYPE	FROM	TO	WEIGHT	VISCOSITY	Ph	FLUID LOSS	REMARKS
Spud Mud	Surface	1,100'	8.4#-8.7#	34-50	8-10	NC	WBM-gel&lime
Lignosulfonate	1100'	6600'	8.7#-9.4#	40-50	8-10	NC-6	WBM-polymer system

CLOSED LOOP SYSTEM WILL BE USED ON THIS WELL. CUTTINGS WILL BE DISPOSED OF PROPERLY.

Sufficient quanities of mud material will be maintained on site or be readily accessible for the purpose of assuring well control.

Electronic/mechanical mud monitoring equipment will be utilized and will include a pit volume totalizer(PVT), stroke counter & flow sensor.

PRESSURE CONTROL EQUIPMENT:

All well control equipment shall be in accordance with Onshore Order #2 for 5M systems. Well control will be rigged up after setting surface casing.

The minimum specs for pressure control equipment that will be provided are follows: (1) 5000# BOP with 4" or 4-1/2" Pipe Rams, (2) 5000# BOP with blind rams, & (3) 3000# Hydril Annular Preventer (Stack will be 11"). **NOTE: Choke manifold will be tied into Gas Buster.**

Auxillary equipment to be used: (1) Upper kelly cock with handle available (2) Stabbing valve.

The choke manifold 4-1/16" 5M will include appropriate valves and adjustable chokes. The kill line will have one check valve.

Ram type preventers will be pressure tested to full working pressure(utilizing a tester & test plug) at: (1) initial installation, (2) whenever any seal subject to test pressure is broken, (3) following related repairs, (4) 30 day incervals.

The annular preventer will be pressure tested to 50% of the rated working pressure.

All pressure tests shall be maintained at least 10 minutes or until provisions of tests are met, whichever is longer.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip.

A BOPE pit level drill be conducted weekly for each drilling crew.

All tests and drill will be recorded/documented in the drilling log.

Remote controls shall be readily accessible to the driller. Master controls shall be at the accumulator.

The accumulator will have sufficient capacity to open the HCR valve, close all rams plus the annular preventer, and retain 200 psi above pre-charge pressure without the use of closing unit pumps. The system will have 2 independent power sources to close the preventers in accordance with the 5M system requirements outlined in Onshore Order #2.

CEMENTING PROGRAM:

CASING	HOLE VOLUME+ EXCESS	CEMENT SX	CEMENT TYPE
9-5/8" (LEAD CMT)	700'(0.3132 cuft/ft)(100%)= 438.48 cuft	215	EXTENDACEM™ SYSTEM+5% salt 12.8ppg 2.04 cuft/sx
9-5/8" (TAIL CMT)	400'(0.3132 cuft/ft)(100%)= 250.56 cuft	212	HALCEM™ SYSTEM 15.6ppg 1.18 cuft/sx
9-5/8" (Shoe Joint)	80'(0.4340 cuft/ft) = 34.72 cuft	29	HALCEM™ SYSTEM 15.6ppg 1.18 cuft/sx
9-5/8" (Top Out)	If required		Class "C" cement + 2% CaCl2 14.5 ppg 1.41 cuft/sx
5-1/2" (LEAD CMT)	3500'(0.1733 cuft/ft)(50%)= 910 cuft	450	EXTENDACEM™ SYSTEM+5% salt + retarder 12.8ppg 2.04 cuft/sx
5-1/2" (TAIL CMT)	2000'(0.1733 cuft/ft)(50%)= 520 cuft	440	HALCEM™ SYSTEM+ 10% salt + retarder+dispersant 15.6ppg 1.18 cuft/sx

After cementing, but before commencing any test, the casing string will stand cemented until cement has reached a compressive strength of 500 psi at the shoe, Wait on Cement(WOC) times will be recorded in the drillers log.

EVALUATION PROGRAM:

Open Hole logs: Gamma Ray/Nuetron/Density/Resisitivity from 6600' to 1100'. Possibly take cores or Formation Tests from wireleine tools.

ABNORMAL CONDITIONS:

All shows of fresh water will be adequately protected and reported.

Mud Logger will be attached after setting of surface casing to detect any GAS.

No anticipated abnormal pressures or temperatures are expected to be encountered.

No hydrogen sulfide expected.

Anticipated bottom-hole pressure is approximately 3226 psi(9.4 ppg EMW)

OTHER INFORMATION:

The anticipated starting date to spud is UPON APPROVAL (We have no drill dates between 12/15/2011-3/31/2012

The duration of the drilling & completion operations will be approximately 45 days.

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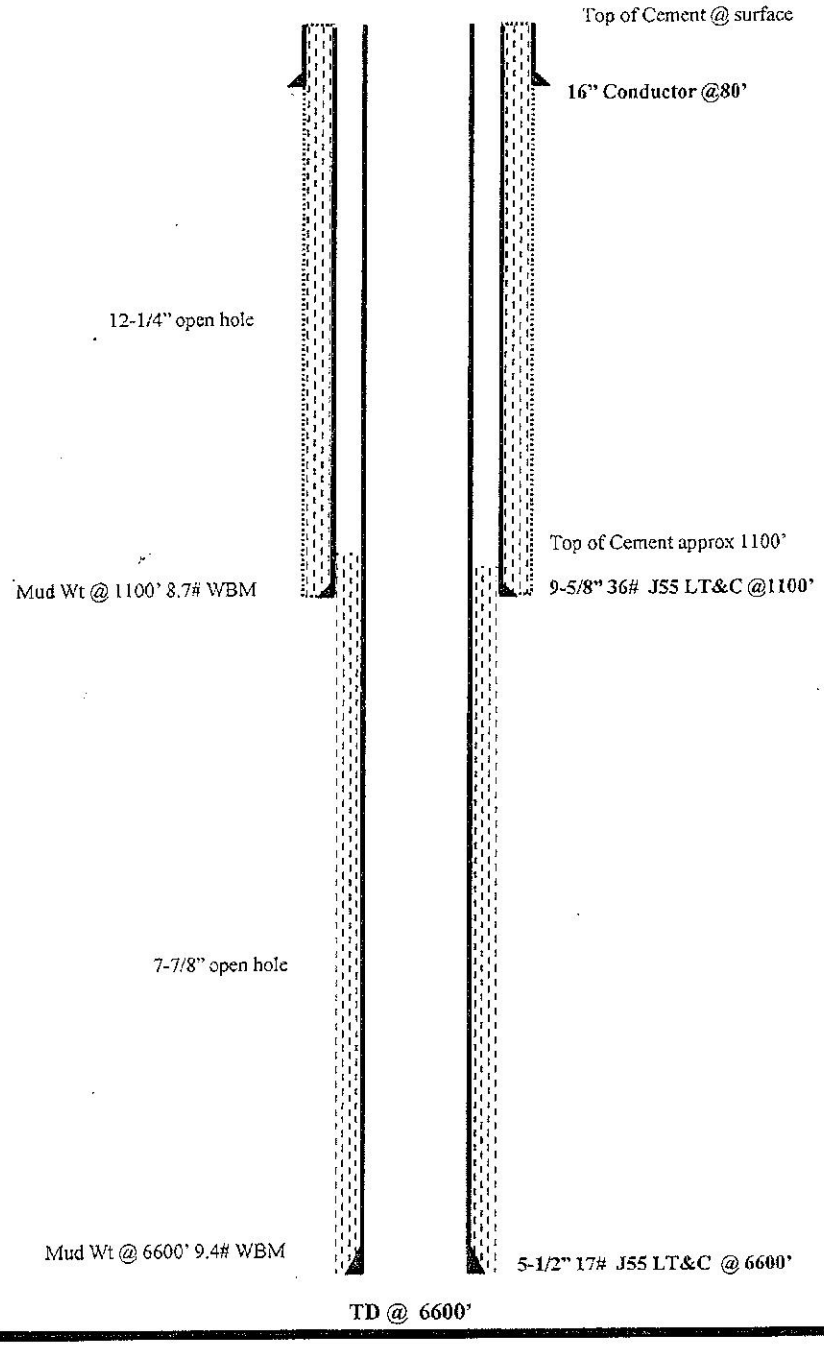
PROPOSED WELLBORE SCHEMATIC

Elev: 8552' GL



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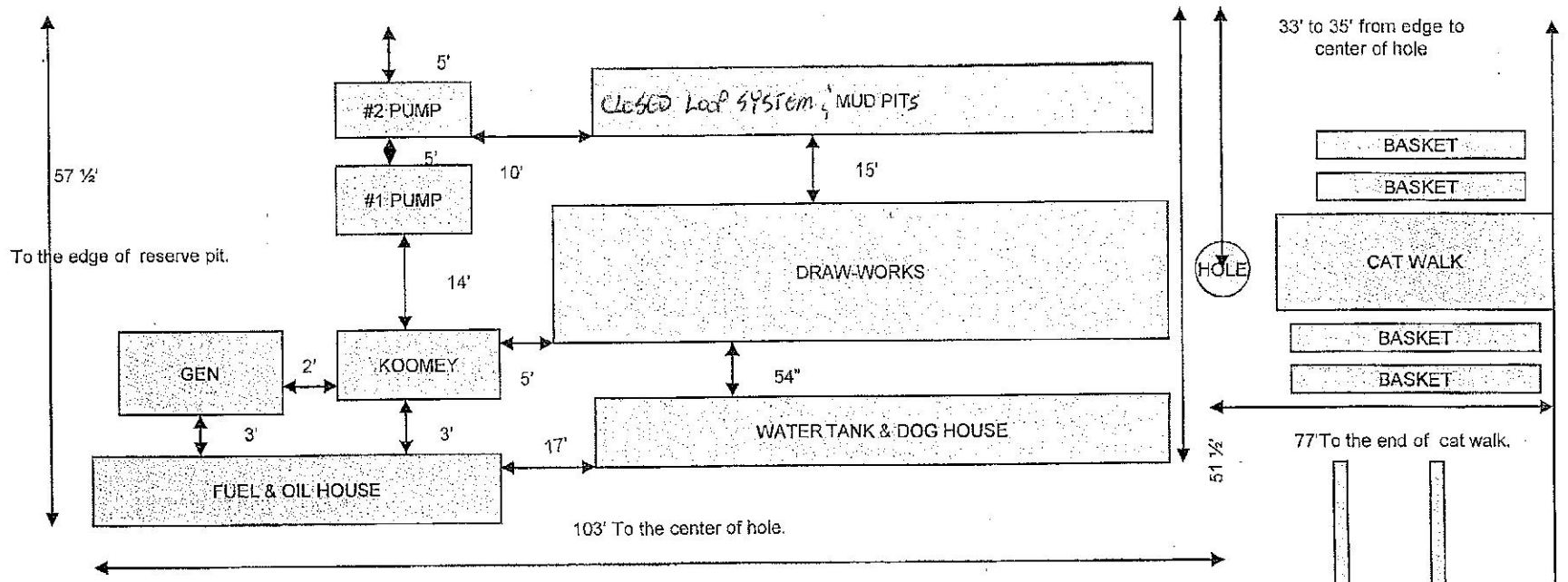
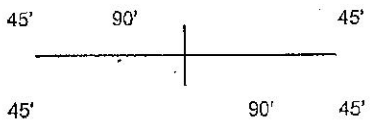
DAHC-San Francisco Cr. #1 Del Norte, Colorado	RIO GRANDE COUNTY, COLORADO BY: JEFF ILSENG DATE: 9/1/11

Staked Location: NW1/4SE1/4, Section 24, Township 39N Range 5E, 1756' FSL x 2546' FEL

AWS RIG #545 LAY OUT



The center of hole needs to be min. of 33' max 35' to the edge of reserve pit, front end needs to be 43' to 45' from edge of reserve pit to center of hole.



Anchor patter 90' to the center of hole 45' side to side.

118' To the end of pipe Racks.

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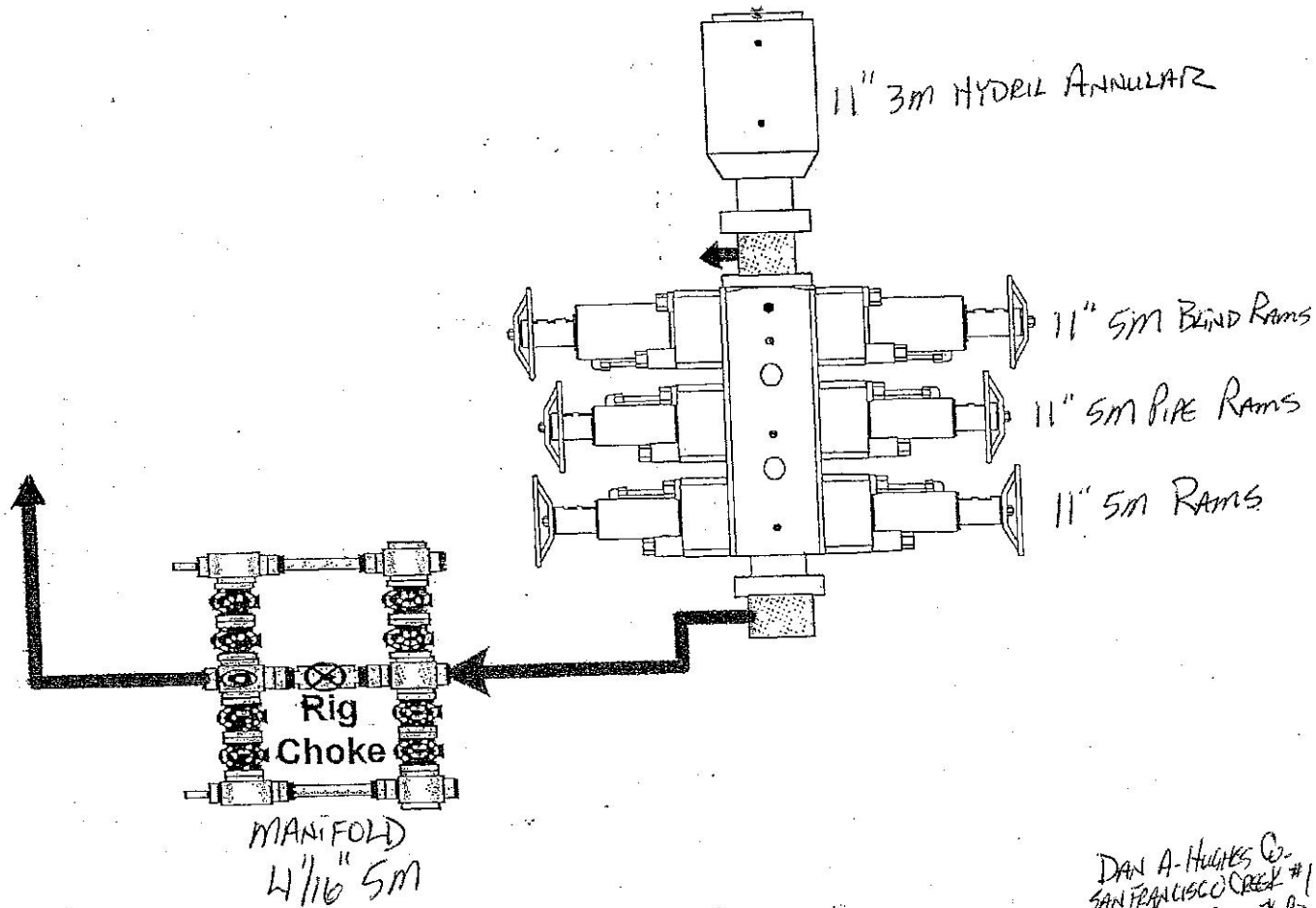
BOP SCHEMATIC
MANIFOLD SCHEMATIC



DAN A. HUGHES CO.
SAN FRANCISCO CREEK #1
RIO GRANDE COUNTY, CO

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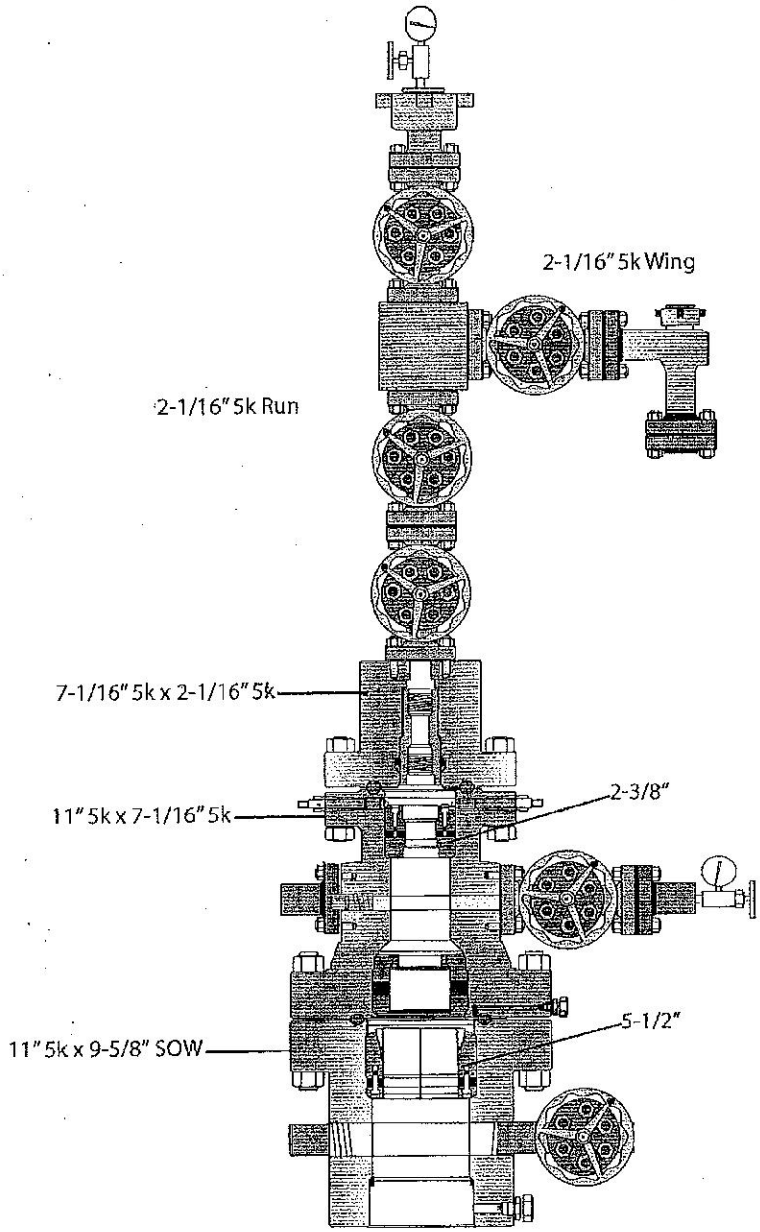
UWS
UNIVERSAL WELLHEAD SERVICES, LLC.

Schematic

Dan A. Hughes Company

Lease: San Francisco Creek #1
Co: Rio Grande Co.
January 31, 2012



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DRILLING RIG INVENTORY

Rig Number: 545
Make & Model: Cardwell KB700
Year Manufactured: 1980 Type: Mobil 6 Axle Drilling Rig
Maximum Depth Rating with 4-1/2" 16.6 ppf Drill pipe: 9500
Rotary Drive: Type and Size, Speed Range (rpm): SJ Petro 205
Approximate number of loads to move rig: 17 loads.

Draw works:
Main Drum:
Hydromatic Brake: _____ Cable Size: 1 1/8 Number of Clutches: 2
Make & Model: Parmac V-80

Sand Drum: Yes Cable Size: 9/16" Cable Length: 8,000 '

Engines: Make & Model: 16V71T Detroit Diesel

Derrick:
Manufacturer: Cardwell International Height: 112' Weight Capacity: 300,000
Maximum Number of Lines: 8 Last Inspection Date: Current

Substructure:
Height and Capacity: 12' 8"
Height above base of substructure to underside of rotary beams: 9' 9"
Windbreak on substructure: X Yes _____ No

Traveling Blocks:
Make & Model: Ideco UTB 160 Weight Capacity: 160 Ton Number of Lines: 8

Elevators: Make & Model: WTM 3 ½ or 4 ½ - 150T

Catwalk: Length & Height: 45' x 42"

Pipe Racks: Length & Height: 27" X 13' 10" 2 racks 4 racks 28' 8" X 36" high

Drill Pipe: Size, Amounts, Connections, Grade: 4 ½" XH Grade E or 3 ½" IF
Last inspection date & footage since last inspected: Current

Drill Collars: (Minimum quantity required for running manufactures maximum weight on bit for each hole size)
Size (O.D. x I.D.): 6 ½ X 2 ¼ (4 ½ XH Connection) or 4 ¾" x 2" Number: 20 EACH SIZE
Last inspection date & footage since last inspected: Current

Pumps: Make, Model, Input HP: #1 G.D PZ8 8" Stroke / #2 GD PZ8 8" Stroke
Engine Make & Model: #1 D398 066B=06854 / #2 D398 066B=06854
Liner Size and Stroke Length: #1 6" 8" Stroke / #2 6" 8" Stroke
Max. Continuous Operating Pressure: #1 1800 psi / #2 1800 psi
Pump Speed (spm): #1 120- Stroke / #2 120- Stroke

Steel Mud Pit:
Dimensions: 5' TALL X 10 'WIDE X 40' LONG Capacity: 400 BBLS Number of Compartments: 6
Shale Shaker Make & Model: Derrick Corp. Model 500
Charge Pump Make & Model: Mission 4X5

BOP's: Make & Model: 11" Shaffer Type B Size: 11"
Pressure Rating: ~~2000#~~ 5M Date of Last Inspection: Current

Rotating Head: Make & Model: Washington 1400 Series
Estimated cost for 2 3/8" stripping rubber: $795.00

Accumulator:
Make & Model: Koomey Type 80 220-118TLB
Capacity of Hydraulic Fluid: 250 Gallon
Number of Stations: 5 / 160 Number of Pressure Bottles: 10
Hydraulic Pressure Source: 3000 psi CAT 650 Triplex
Electric Motor: Abex Denison 20 HP
Gas/Diesel Engine: N/A
Air/Hydraulic Pump: Alemite 88550
Date of Last Inspection: Current

Choke Manifold:
Valves:
Make & Model: A.O.P. 110579066
Pressure Rating & Size: 3000 3 inch
Date of Last Inspection: 12/01/08
Chokes:
Make & Model: Steel, ATO Type: Cross
Pressure Rating & Size: 3000 3 Inch
Date of Last Inspection: Current

Light Plant:
Voltage, Amperage, Watts: 60 240/480 KB rating (300 kw)
Engine Make & Model: Series 60 Detroit

Drilling Recorder:
Make & Model: Pason
Chart Type: _____ 12 Hour X 24 Hour

Bureau of Land Management
Del Norte Field Office
Del Norte, Colorado
Surface Use Plan of Operations

Company: Dan A. Hughes Co.; Well No. San Francisco Creek. #1

Location: Sec. 24, T 39N, R 5E NMPM

Lease No. COC 69530

All operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR § 3100 & 43 CFR § 3160), Onshore Oil and Gas Orders, the approved plan of operations and the conditions of approval. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

SURFACE USE PLAN

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

1. Existing Roads:

Location of proposed well in relation to town or other reference point: The well location is approximately 5 miles south of Del Norte, Colorado.

Proposed route to location: See attached project map.

Plans for improvement and/or maintenance of existing roads: Access would be from County Road 13 to the Wagon Wheel Road which enters San Francisco Ranch Estates. County Road 13 to the Wagon Wheel Road which enters San Francisco Ranch Estates.

2. Planned Access Roads:

Location (centerline): The access road would be from the Wagon Wheel Road. Refer to Pad Location Drawing

Length of new access to be constructed: 0.25 miles on lease

Length of existing roads to be upgraded: 0 miles

Maximum total disturbed width: approximately 40 feet

Maximum travel surface width: 14 feet

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Maximum grades: 6.94%

Turnouts: 0

Surface materials: Where soil conditions dictate, the use of stabilizing material would be used, otherwise existing natural surface materials would be used.

Drainage (crowning, ditching, culverts, etc): One 12 inch culvert at the intersection where the existing access road enters the property and the new road to the pad begins. Additionally, a low water crossing would be utilized, armed with 1- ¾" gravel.

Cattleguards: None

Length of new and/or existing roads which lie outside the lease or unit boundary for which a BLM right-of-way is required: 0 miles

Surface disturbance and vehicular travel would be limited to the approved location and access road. Any additional area needed must be approved by BLM in advance. To limit constant traffic, we will concentrate traffic initially, coordinate with truck drivers to travel in tandem, and be aware of local traffic buildup with instructions to pull over and let others pass. Drilling water will be delivered at the beginning of the project and stored on site unless there is a loss of circulation and more water needs to be delivered. Drivers will take into consideration road conditions before bringing in equipment.

3. Location of Existing Wells: There is one plugged and abandoned oil or gas well and one abandoned well location within a one mile radius of the proposed well. There are 20 permitted water wells within a one mile radius the proposed well (See Well Location Map).

4. Location and Type of Water Supply: All water needed for drilling purposes will acquired from a municipal source and commercially through the City of Pagosa Springs, the City of Del Norte and also James Cooper DBA Water Development.

5. Source of Construction Material: Additional material, if needed, would be obtained from a private source.

6. Methods of Handling Waste Disposal:

No reserve pit will be constructed. A Closed loop drilling system will be used and all waste will be delivered to an approved disposal facility.

Wastewater will not be discharged on the surface at this site and the drilling of the well will not require a wastewater management plan.

A specific stormwater pollution prevention plan (SWPPP) has been designed for this location and submitted to the COGCC.

All rubbish and debris will be kept in containers on the well site, and will be hauled to an approved disposal site upon completion of drilling and completion operations and as needed during such operations. There will be no chemical disposal of any type.

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Self-contained, portable toilets will be used for human waste, and the waste will be disposed at an approved landfill. Sanitation will comply with local and state regulations for the disposal of human waste.

All waste oil will be disposed of properly at approved facilities.

7. **Ancillary Facilities:** There will be no permanent camps of facilities, only trailers, garbage containers and portable toilets.

8. **Well Site Layout:**

See the attached drawings: **AWS Rig #545 Lay Out** for the well pad layout and **Pad Location Drawing** for access to the pad.

All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR § 3162.6.

The blooie line will be located: At least 100 feet from the well head. To minimize the amount of fugitive dust and spray escaping from the blooie pit, the following blooie line deflection method will be employed: water injection.

A water truck will be located on site and instructed to spray the road from pad location to the pavement as needed.

The entire pad will be enclosed with three tiers of One-ton straw bales to berm around the entire well pad to dampen noise during drilling, minimize fugitive dust, and visual impacts. The straw bales are approximately 4' tall and 8' long, stacking them three high will provide for a total height of 12'. The straw bales will also be treated with a fire suppressant in order to prevent ignition and potential fire.

Drill rig lighting will be shrouded and directed downward, away from any nearby residences.

Sediment Fences will be constructed in order to minimize the sedimanet deposition in a nearby ephermal drainage and road. The proposed sediment fence would be constructed with the use of matting, wooden lathes (stakes), and straw wattles. The matting would be "keyed-in" the soils for maximum effectiveness.

9. **Plans for Restoration of the Surface:**

The top 6 inches of topsoil material will be removed from the center of the pad location and stockpiled separately at the east and west sides of the pad, to minimize the mixing of the two different soil structures observed at the site,

All top soil and sub soil not used for the pad construction would be hydromulched in order to prevent erosion. The color of the hydromulch would be such that blends in to the natural landscape and reduces visual contrast.

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Tracking perpendicular to the slope with machinery on soil stock piles and fill areas would be performed.

Immediately upon completion of drilling, all equipment that is not necessary for production shall be removed.

All road surfacing will be removed prior to the rehabilitation of roads.

Reclaimed roads will have the berms and cuts reduced and will be closed to vehicle use.

All disturbed areas will be recontoured to replicate the natural slope.

The stockpiled topsoil will be evenly distributed over the disturbed area.

The abandonment marker will be as specified by BLM.

Reclamation of the surface will commence as soon after construction, drilling and well completion are concluded, as is practicable. In the event of a dry hole, the drill site and roadways will be restored to their original condition as soon as possible, depending on weather and other extenuating circumstances.

All junk, debris, or other foreign material must be removed before initiating any dirt work to restore the location.

Portion of the location and access road not needed for production or production facilities will be reclaimed. All stockpiled topsoil, in proportion to the area being reclaimed, will be used in reclaiming areas without an on-going operation.

Site reclamation will include:

- Removing the road base material from the access road and any other surface that may be covered by such material;
- Recontouring the location to approximate natural contours, to the extent practicable; evenly redistributing stockpiled topsoil over the recontoured areas;
- Scarifying recontoured areas, including the access road, by use of a disk or harrow prior to seeding; and
- Drilling or broadcasting seeds.

The seed mix and rate used will be that recommended by the Authorized Officer. Seed will be drilled where-ever possible. If the seed is broadcast, then a harrow or some other implement will be dragged over the seeded area to assure seed coverage. The seed will be certified, pure live seed, and the seed tags will be available if requested by the Authorized Officer. Certified weed free seed will be used to rehabilitate reclaimed land.

All hillsides and other places where the contractor has moved earthen materials to facilitate

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operations will be restored to as near original condition as practical. The surface of the re-contoured land will be left in a slightly roughened condition to collect precipitation and to promote seed germination. The site will be fenced until vegetation is reestablished.

Road base material, used in the construction of the access road and pad, will be removed from the site and disposed in a proper manner. The access road will be recontoured using of an excavator or similar equipment, rather than simply ripping the surface.

Culverts will be removed from the site and disposed in an approved landfill. The concrete cellar will be removed from the site and similarly disposed in a landfill, or with the approval of the Authorized Officer may be broken down into small pieces and buried during the recontouring on the site.

10. Surface and Mineral Ownership:

The surface of the proposed well site is owned by Dan A. Hughes Company and the mineral estate is administered by the Bureau of Land Management, United States Department of Interior.

11. Other Information:

Archeological Concerns:

A cultural survey was completed by Metcalf Archaeological Consultants and one prehistoric lithic scatter was identified. Metcalf Archaeological Consultants recommended this site as not eligible for inclusion on the National Register of Historic Places and further recommended a finding of "no historic properties affected".

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the BLM Field Office. Within five (5) working days, the BLM will inform the operator as to:

- Whether the materials appear eligible for the National Register of Historic Places;
- The mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- A time frame for the BLM to complete an expedited review under 36 CFR § 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the BLM are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the BLM will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The BLM will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the BLM that the required mitigation has been completed, the

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operator will then be allowed to resume construction.

Other concerns:

The operator would monitor for and treat any noxious weeds along the right of way, and on the well pad. All equipment will be power washed prior to entering Federal lands to help mitigate the spread of noxious plants.

Any facilities in an existing right of way that are damaged as a result of the oil and gas operations will be repaired or replaced.

Fire suppression equipment will be available to suppress any wildfires caused by construction or related activities. In the event of a wildfire, call the Pueblo Interagency Fire Dispatch Center (719-553-1600). All vehicles and equipment will carry water, shovels, and other firefighting equipment to extinguish any fires that may be accidentally started.

Spill Response: If oil, lubricants and other petroleum or man-made products are accidentally spilled onto the ground surface, the BLM will be contacted and provided specific information about the spill and/or leak. Spills or leaks will be cleaned from the soil and any contaminated material will be bioremediated or disposed of at an authorized landfill. An emergency spill response program will be specifically designed for this project. If a spill or release impacts or threatens to impact an RSO stream, the operator shall notify the Colorado Department of Parks and Wildlife (CDPW) immediately following discovery of the release, and the spill or release shall be reported to the Commission in accordance with Rule 906.b.(4).

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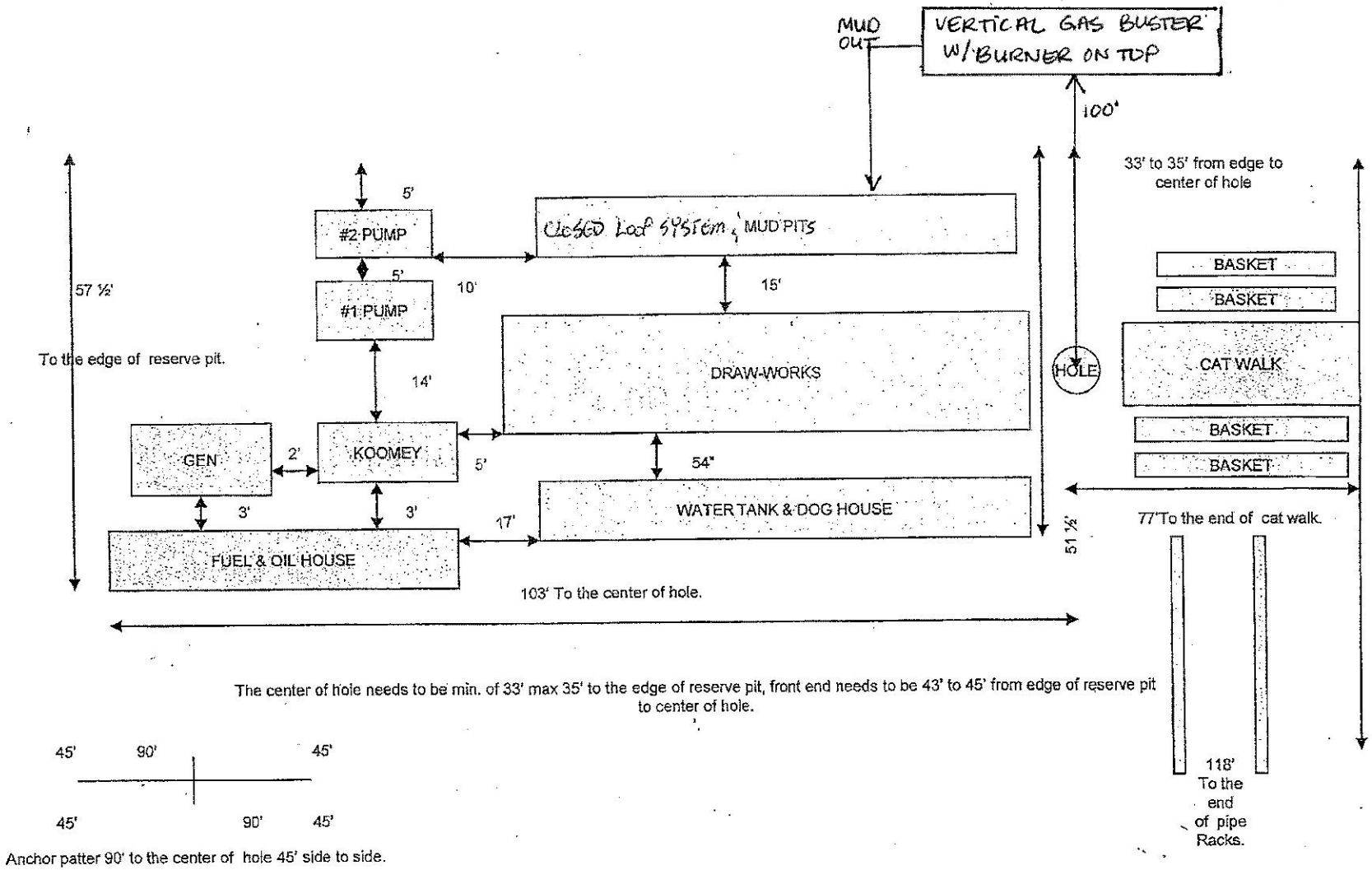
AWS RIG #545 LAY OUT



The center of hole needs to be min. of 33' max 35' to the edge of reserve pit, front end needs to be 43' to 45' from edge of reserve pit to center of hole.

Anchor patter 90' to the center of hole 45' side to side.

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