UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL DEEPEN, OR PLUG BACK 1a. 5. Lease Number Type of Work SF-078138-A DRILL **Unit Reporting Number** NMNM-73426-MV 1b. Type of Well 6. If Indian, All. or Tribe GAS 7. Unit Agreement Name 2. Operator ConocoPhillips Storey B LS 3. Address & Phone No. of Operator 8. Farm or Lease Name PO Box 4289, Farmington, NM 87499 RCVD FEB14'07 9. Well Number OIL CONS. DIV. (505) 326-9700 #3F DIST. 3 **Location of Well** 10. Field, Pool, Wildcat 4. Unit L(NWSW), 1600' FSL, 885' FWL Blanco Mesaverde/Basin Dakota Surface: Bottom Hole: Unit N(SESW), 815 FSL, 1685' FEL 11. Sec., Twn, Rge, Mer. (NMPM) FWL Latitude 36° 50.30919' N Surface: Sec. 5, T30N, R11W Surface: Longitude 108° 01.15714' W Sec. 5, T30N, R11W BHL: Bottom Hole: Latitude 36° 50.17959' N Longitude 1080 00.99155' W API# 30-045-3415 0 14. Distance in Miles from Nearest Town 12. County 13. State 1.5 Miles, Aztec San Juan NM 15. Distance from Proposed Location to Nearest Property or Lease Line 885 16. **Acres in Lease** 17. Acres Assigned to Well 318.93 acres W/2 (MV/DK) Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 18. 19. **Proposed Depth** 20. Rotary or Cable Tools FOUZ MD 6841' TVO Rotary 21. Elevations (DF, FT, GR, Etc.) 22. Approx. Date Work will Start 5747'GL 23. **Proposed Casing and Cementing Program** NOTIFY AZTEC OCD See Operations Plan attached IN TIME TO WITNES 24. Authorized by: Regulatory Specialist Date PERMIT NO. APPROVAL DATE **APPROVED BY**

Archaeological Report attached

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction. DRILLING OPERATIONS AUTHORIZED ARE

SUBJECT TO COMPLIANCE WI関 ATTACHED "GENERAL REQUIREMENTS"

HOLD STOR FOR C INEXTIONA

procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165 4

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 1301 V. Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brasos Rd., Asteo, N.M. 87410 1220 South St. Francis Dr. Santa Fe. NM 87505

AMENDED REPORT

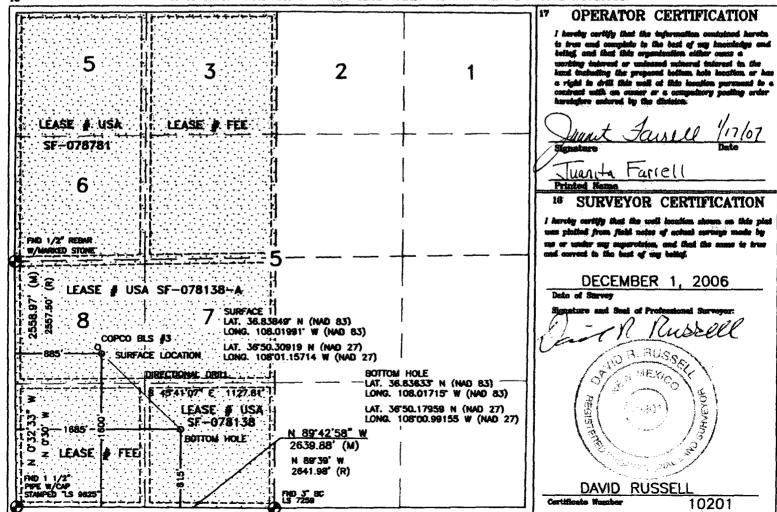
<u>DISTRICT_IV</u> 1220 S. St. Francis Dr., Santa Pe, NM 87606

7505 2007 JAN 26 PM 1: 10 RCUD FEB14'07
WELL LOCATION AND ACREAGE DEDICATION PLATIL CONS. DIV.

Pool Name DIST. 3 Pool Code 1 API Number 72319/71599 30-045- 34150 MESA VERDE/DAKOTA Well Number *Property Code ⁶ Property Name STOREY B LS 3F 31846 Operator Name Elevation 7 OGREED No. CONOCO PHILLIPS, COMPANY 5747 217817

¹⁰ Surface Location Feet from the UL or lot no. Section North/South line Feet from the Best/Vest line County 885° 1600 SOUTH SAN JUAN 5 **30N** 11W 8 WEST 11 Rottom Hole Location If Different From Surface Morth/South line Bast/Vest line UL or lot no. Section Lot Idn Feet from the Feet from the County **30N** 815' SOUTH 1685 SAN JUAN 5 11W EAST 14 Consolidation Code Joint or Infill Dedicated Acres *Order No. tesW 318.93 acres W/2

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Submit 3 Copies To Appropriate District Office	State	of New Mex	ico			Form C-103
<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240	Energy, Min	erals and Natural	Resources	WELL API NO.	7	May 27, 2004
District II	OIL CONS	ERVATION D	IVISION	5 Indicate Terms of	30-045- 3	4150
1301 W. Grand Ave., Artesia, NM 88210 District III		South St. Francis		5. Indicate Type of STATE	FEE FEE	
1000 Rio Brazos Rd., Aztec, NM 87410		ta Fe, NM 8750		6. State Oil & Gas	Lease No.	
District IV		- ,			SF-078138 /	
1220 S. St. Francis Dr., Santa Fe, NM 875 SUNDRY NOTIO	CES AND REPORTS	ON WELLS		7. Lease Name or U	Jnit Agreement N	ame
(DO NOT USE THIS FORM FOR PROPOSALS			O A			
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)	ON FOR PERMIT (FORM	C-101) FOR SUCH			Storey B LS	
1. Type of Well:				8. Well Number		
Oil Well Gas Well X	Other			O OCRUD Nambar	#3F	
2. Name of Operator Conc	ocoPhillips Company			9. OGRID Number	217817	
3. Address of Operator				10. Pool name or W	ildcat	
3401 E. 30TH STE 4. Well Location	REET, FARMINGTON	I, NM 87402		L	Basin Dakota	
E .	1600' feet from th		line and	885' feet from	m the West	line
Section 5	Township			NMPM	County	San Juan
	Elevation (Show wheth	ner DK, KKB, KI, (5747' GL	GK, etc.)			
Pit or Below-grade Tank Application	or Closure				r	 .
Pit type New Drill Depth to Grounds	water <u>50-100'</u> Distar	ice from nearest fresh	water well	>1000' Distance f	from nearest surface	water <u>200-1000</u>
Pit Liner Thickness: 12	mil Below-Gr	ade Tank: Vol	ume	bbls; Construct	tion Material	Synthetic
PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING		X X	OTHER:	CE DRILLING OPNS. EMENT JOB ive pertinent dates, in	ALTERII P AND A	NG CASING
New Drill, Inlined: ConocoPhillips proposes to construct interpretation of the Ecosphere's risk General Plan dated June 2005 on file be applined as per the risk ranking critical interpretation of the Ecosphere's risk General Plan dated June 2005 on file be applined as per the risk ranking critical interpretation and grade tank has been/will be constructed or closs SIGNATURE	c ranking criteria, the reat the NMOCD office at the NMOCD office at the ConocoPhillips (conocoPhillips)	new drilling pit and the A portion of the anticipates closing	pre-set mud p vent/flare pit v these pits acc knowledge an rat permit	oit will be gra lined pits will be designed to m cording to the Novem	s as detailed in Co lanage fluids and t liber 1, 2004 Guide	onocoPhillips' hat portion will elines.
7	/#/ C					
Type or print pame Juanit For State Use Only	ta Farrell	E-mail address:		Teleph	hone No. 50	05-326-9597

DEPUTY OIL & GAS INSPECTOR, DIST. #4

FEB 1 5 2007

APPPROVED BY
Conditions of Approval (if any):

LATITUDE: 36.83849°N LONGITUDE: 108.01991°W DATUM: NAD 83

CONOCO PHILLIPS, COMPANY

STOREY B LS #3F
1600' FSL & 885' FWL
LOCATED IN THE NW/4 SW/4 OF
SECTION 5, T30N, R11W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 5747', NAVD 88
FINISHED PAD ELEVATION: 5747.0', NAVD 88

<u>200</u> В. 50, 50' 100' 200'

THIS DIAGRAM IS AN ESTIMATE OF DIRT BALANCE AND IS NOT INTENDED TO BE AN EXACT MEASURE OF VOLUME

VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: COPC039 DATE: 12/08/06





Russell Surveying 1409 W. Aztec Blvd. #5 Aztec, New Mexico 87410 (505) 334-8637



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

STOREY B LS 3F

AFE #: WAN.CNV.7104 AFE \$: Lease: API #: Rig: Patterson Rig 749 State: NM | County: SAN JUAN Field Name: NEW MEXICO-WEST Phone: 505-326-9772 Prod. Engineer: Phone: 486-2334 Geoscientist: Head, Chip F Phone: 832-486-2275 Proj. Field Lead: Fransen, Eric E. Res. Engineer: Prabowo, Wahyu Phone: Primary Objective (Zones): Zone Zone Name R20002 MESAVERDE(R20002) R20076 DAKOTA(R20076)

	enter a service		and a second	B 05	Mikales issa	n dae geen de de		See		
Locations Surface		Datum Coc		WZI					Straight i	The state of the s
Latitude: 36.838487	Longit	ude: -108.019	9286	X:		Y:		Section: 05	Range: 01	1W
Footage X: 885 FWL	Footag	ge Y: 1600 FS	L	Elevation: 57	47	(FT)	Township: 030N		um a agid hidosan agas planosodos o par Moll so um pom tom a secondo con 1977, de sum Mil	
Tolerance:								and of the same and		tomo grandom a su desta figal ma
Location: Bottom Hol	e .	Datum Cod	le: NA	D 27					Straight I	lole :
Latitude: 36.836326	Longit	ude: '-108.016	5526	X:		Y: Section: 05 Range: 01			.1W	
Footage X: 1685 FWL	Footag	je Y: 815 FSL		Elevation:		(FT)	Township: 30N			
Tolerance:			***************************************					- FFE	- The state of the	
Location Type: Year Ro	ound		Start D	Date (Est.):		Completion Date: Date In Operation:				
Formation Data: Assi	ume KB :	= 5761 U	Inits =	FT						
Formation Call & Casing Points		Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT Remarks				
DJAM		709	5052				Possible water	flows.		
(RLD		843	4918							
FRLD		1749	4012				Possible gas.			
PCCF		2187	3574							
EWS		2294	3467							
HUERFANITO BENTONI	ΤE	2926	2835							
CHRA		3249	2512							
JCLFH		3744	2017				Gas; possibly w	et		
MASSIVE CLIFF HOUSE		3870	1891							
MENF		3963	1798			Gas.				
YTLK		4513	1248			Gas.				
MANCOS		4835	926							
GLLP		5755	6			Gas. Possibly wet.				
GRHN		6499	-738				Gas possible, hi	ghly fractured		
GRANEROS		6551	-790							
WLS		6608	-847				Gas			
PAGU		6679	-918				Gas. Highly Fra	ctured.		
BRL		6720	-959				Gas			
NCINAL		6775	-1014				Gas			
OTAL DEPTH DK	······	6841	-1080				TD 70' below T/	ENCN		
Reference Wells:			:				<u> </u>			
	Name			Comments	1147					
ntermediate Store				SW 5-30N-11						
roduction Rhod	a Adams	i#1		SE 5-30N-11	W					

Printed on: 1/18/2007 3:37:08 PM

Storey B LS #3F OPERATIONS PLAN

Well Name:

Storey B LS #3F

Objective:

Mesa Verde/Dakota

Location:

San Juan NM

Elevation:

5747'

Bottom Hole Coordinates/Footages

Surface Coordinates/Footages

T - 30 N R - 11 W 1600' FSL

Sec.: 5

815' FSL

T-30 N R-11 W Sec.: 5 1685' FWL

Latitude:

885' FWL

Latitude: 36° 50.1796' N

36° 50.3094' N Longitute: 108° 1.1946' W

Longitute: 108° 0.9916' W

<u>Formation</u>	Top (TMD)	Top (TVD)	Contents
San Jose	0	0	
Ojo Alamo	717'	709'	aquifer
Kirtland	861'	843'	
Fruitland	1861'	1749'	
Pictured Cliffs	2345'	2187'	
Lewis	2463'	2294'	
Huerfanito Bentonite	3161'	2926'	
Chacra	6502'	3249'	
Massive Cliff House	4127'	3870'	
Menefee	4220'	3963'	gas
Massive Point Lookout	4770'	4513'	gas
Mancos Shale	5092'	4835'	
Gallup	6012'	5755'	gas
Greenhorn	6756'	6499'	gas
Graneros	6808'	6551'	
Two Wells	6865'	6608'	gas
Paguate	6936'	6679'	gas
Lower Cubero	6977'	6720'	gas
Encinal	7032'	6775'	gas
Total Depth:	7098'	6841'	

Logging Program:

Cased Hole:

CBL-GR

Open Hole:

None

<u>Mud Program:</u>	Interval (TMD) 0' - 200'	<u>Type</u> Spud	Weight (ppg) 8.4-9.0	<u>Vis. (s/qt)</u> 40-50	Fluid Loss (cc/30min) No control
	200' - 3957'	Non-dispersed	8.4-9.0	30-60	Less than 8
	3957' - 7098'	Air/Air Mist/Nitrogen	n/a	n/a	n/a
Casing program:	Interval (TMD)	Hole Size	Casing Size	Weight	<u>Grade</u>
	0' - 200'	12 1/4"	9 5/8"	32.3#	H-40
	200' - 3957'	8 3/4"	7"	23.0#	L-80
	3957' - 7098'	6 1/4"	4 1/2"	11.6#	L-80
Tubing program:	Interval (TMD)	Hole Size	Casing Size	Weight	<u>Grade</u>
	0' - 7098'	Cased	2 3/8"	4.7#	J-55

Wellhead Equipment

9 5/8" x 7" X 4 1/2" x 2 3/8" - 11" (2000 psi) wellhead assembly

<u>Drilling:</u> Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

Drill to surface casing point of 200' and set 9.625" casing.



Intermediate

Mud drill to kick off point of 250'. At this point the well will be directionally drilled by building 4 degrees per 100' with an azimuth of 128.62 degrees. The end of the build will be at a TVD of 857', a TMD of 876', a reach of 135', and an inclination of 25.05 degrees. This angle and azimuth will be held to a TVD of 2891', a TMD of 3122', and a reach of 1117'. At this point the well will be drilled with a drop of 3 degrees per 100'. The end of the drop will be at a TVD of 3700', a TMD of 3957', a reach of 1266', and an angle of 0.0 degrees. 7" casing will be set at this point.

Production

From the shoe of the intermediate string, the well will be drilled vertically with an air hammer to a TVD of 6841' (TMD of 7098'). 4.5" casing will be set at this point.

Cementing

9.625" surface casing conventionally drilled: 200% excess cement to bring cement to surface.

Run 188 cu.ft. (147 sks) Type III cement with 3% CaCl2 and 1/4 pps celloflake (1.28 sks/ cu.ft.). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60° F prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

7" intermediate casing: 50% excess cement to bring cement to surface.

Lead with 769 cu.ft. (361 sks) Premium Lite w/ 3% CaCl2, 0.25 pps Cello-Flake, 5 pps LCM-1, 0.4% FL-52 and 0.4% SMS (2.13 sks/ft3). Tail with 124 ft3 (90 sks) Type III cmt. w/ 1% CaCl2, 0.25 pps Cello-Flake and 0.2% FL-52 (1.38 sks/ft3). If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC.

4.5" production casing: **30%** excess cement to achieve 100' overlap with intermediate casing. Run 431 cu.ft. (218 sks) Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52 (1.98 sks/ft3.)

BOP and Tests

Surface to Total Depth - 11", 2000 psi double gate BOP stack (Reference Figure #1).

Surface to Total Depth - choke manifold (Reference Figure #2).

Prior to drilling out surface casing, test BOPE and casing to 600 psi for 30 minutes.

Pipe rams will be actuated at least once each day and blind rams will be actuated once each trip to test proper functioning. A Kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

BOPE tests will be performed using an appropriately sized test plug and test pump and will be recorded using calibrated test gauges and a properly calibrated strip or chart recorder. The test will be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five minutes and a high pressure test requirement held for ten minutes as described in Onshore Order No. 2 or otherwise noted in the APD. A successful BOPE test using a test plug is considered when no pressure drop occurs over the duration of the test. Test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. Where the intermediate casing strings are used, only one BOPE test will be necessary contingent upon the test being conducted to the highest approved test pressure to which BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than 10 percent pressure drop during the duration of the test.

Additional Information:

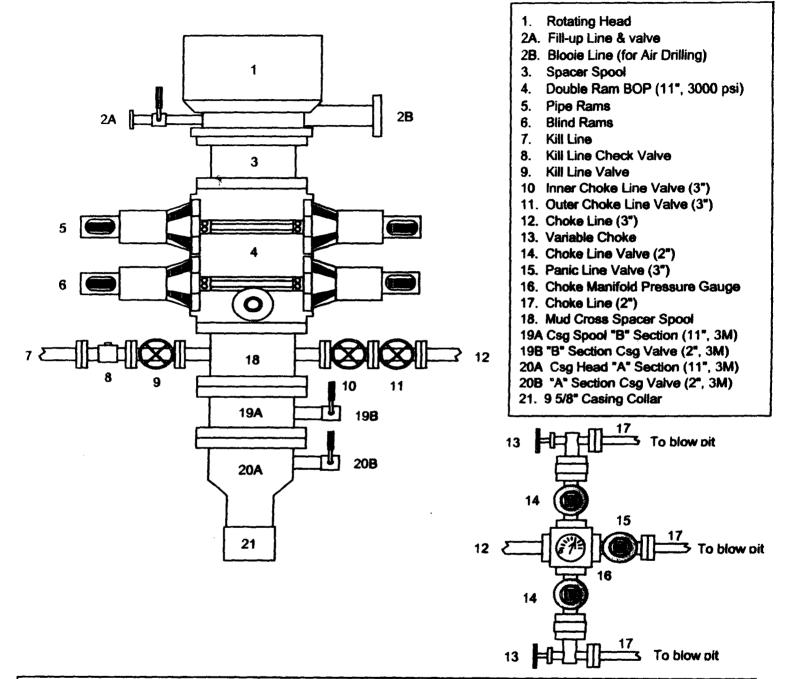
- · No gas dedication.
- New casing will be utilized.
- Pipe movement (reciprocation) will be done if hole conditions permit.
- No abnormal pressure zones are expected.
- BHP is expected to be 2000 psi.

Drilling Engineer

/25/07 Date

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to TD and Setting 4.5 inch Casing

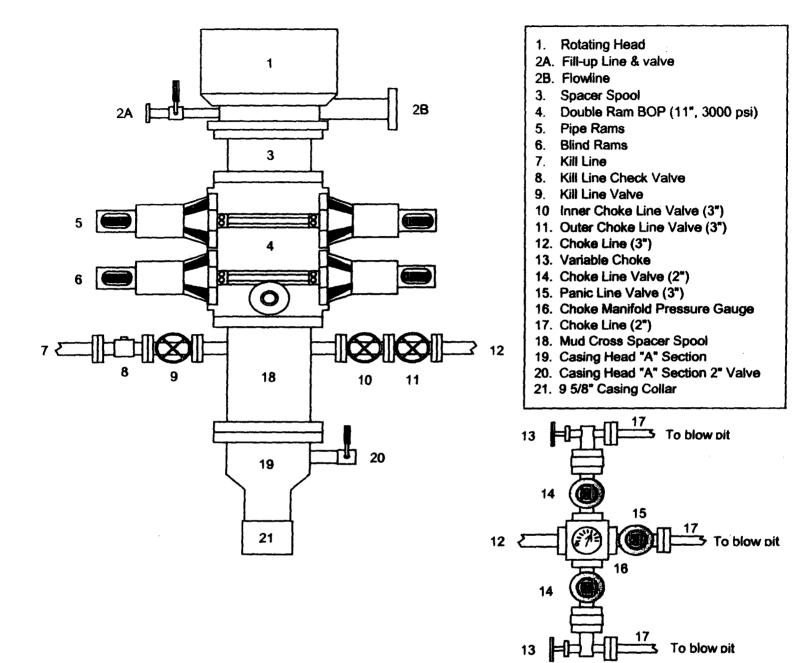


After the 7" intermediate casing has been run and cemented, the Casing Spool ("B" Section) will be installed on the wellhead ("A" Section) and the BOP will be installed on the Casing Spool. A test plug will be set in the wellhead and the pipe rams, blind rams, and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 10 minutes and to 3000 psi (high pressure test) for 10 minutes. Then the test plug will be removed and the 7" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 10 minutes and to 1800 psi for 30 minutes - this test pressure is 48% of the minimum internal yield strength of 3740 psi for the 7", 20#, J-55, STC casing. Then we will air drill the 6-1/4" hole to TD and run and cement the 4-1/2" casing.

In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. Upper Kelly cock Valve with handle
- 2. Stab-in TIW valve for all drillstrings in use

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM For Drilling to Intermediate Casing Point & Setting 7" Intermediate Casing



A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 10 minutes and to 1000 psi (high pressure test) for 10 minutes. Then the test plug will be removed, and the 9-5/8" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 10 minutes and to 1000 psi for 30 minutes (this value is one 44% of the minimum internal yield pressure of the 9-5/8" casing). (Note: per regulatory requirements we will wait on cement at least 8 hrs after placement before testing the 9-5/8" surface casing). Then an 8-3/4" hole will be drilled to intermediate casing point and 7" intermediate casing will be run and cemented.

In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. Upper Kelly cock Valve with handle
- 2. Stab-in TIW valve for all drillstrings in use