

13-491

HOBBS OCD

AUG 19 2013

Form 3160-3
(March 2012)

Split Estate

RECEIVED

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SECRETARY'S POTENTIAL

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER		5. Lease Serial No. SHL NMLC066126; BHL NMLC066126C
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No. Hanson 26 Federal Com 5H
2. Name of Operator Cimarex Energy Co.		8. Lease Name and Well No. <39480>
3a. Address 600 N. Marienfeld St. Ste. 600 Midland Tx 79701		9. API Well No. 30-025- 41359
3b. Phone No. (include area code) 432-571-7800		10. Field and Pool, or Exploratory Lea; Bone Spring, S <37580>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface 330' FNL & 480' FEL Unit A At proposed prod. Zone 330' FSL & 540' FEL Unit P Horizontal Bone Spring test		11. Sec., T. R. M. or Blk. and Survey or Area 26-20S-34E
14. Distance in miles and direction from nearest town or post office* Approximately 23 miles WNW of Eunice, NM		12. County or Parish Lea
		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any) 330'	16. No of acres in lease NMLC066126 800 acres; NMLC066126C 320 acres	17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 180' to #4H	19. Proposed Depth 14,221' MD 10,000' TVD	20. BLM/BIA Bond No. on File NM2575; NMB000835
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3694' GR	22. Approximate date work will start* 06.01.13	23. Estimated duration 35 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan | 5. Operator Certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Paula Brunson</i>	Name (Printed/Typed) Paula Brunson	Date 02.28.13
Title Regulatory Compliance		
Approved By (Signature) <i>Jesse J. Juen</i>	Name (Printed/Typed) Jesse J. Juen	Date AUG 13 2013
Title STATE DIRECTOR		
Office NM STATE OFFICE		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached. **APPROVAL FOR TWO YEARS**

Title 18 U.S.S. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Capitan Controlled Water Basin

AUG 26 2013

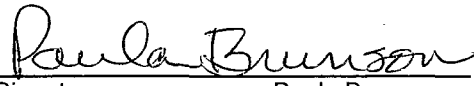
Operator - Landowner Agreement

Company: Cimarex Energy Co. of Colorado
Proposed Well: Hanson 26 Federal Com 5H
Federal Lease Number: SHL NMLC066126; BHL NMLC0066126C

This is to advise that Cimarex Energy Co. of Colorado has an agreement with: Daniel C. Berry (P.O. Box 160 89 Berry Ranch Road, Eunice, NM 88231), the surface owner, concerning entry and surface restoration after completion of drilling operations at the above described well.

After abandonment of the well, all pits will be filled and levelled and all equipment and trash will be removed from the well site. No other requirements were made concerning restoration of the well site.

February 28, 2013
Date


Signature Paula Brunson
Regulatory Analyst

Application to Drill
Hanson 26 Federal Com 5H
 Cimarex Energy Co.
 UL: A, Sec. 26-20S-34E
 Lea County, NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

- 1 Location: SHL 330' FNL & 480' FEL
 BHL 330' FSL & 540' FEL
- 2 Elevation above sea level: 3694' GR
- 3 Geologic name of surface formation: Quaternary Alluvium Deposits
- 4 Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
- 5 Proposed drilling depth: 14,221' MD 10,000' TVD
- 6 Estimated tops of geological markers:

Formation	Est. Top	Bearing
Ground Water (per OSE)	100	NA
Rustler	1650	NA
Top Salt	1800	NA
Bottom Salt	3400	NA
Capitan	3970	NA
Delaware	5180	Hydrocarbons
Cherry Canyon	5700	NA
Brushy Canyon	8110	NA
Bone Spring	8400	NA
Avalon Shale	8900	NA
1st BSS	9600	Hydrocarbons
2nd BSS	10150	NA
3rd Carbonate	10630	NA
3rd BSS	10925	NA
3rd BS "C" SS	11015	NA

- 7 Possible mineral bearing formation:
 Shown above

- 8 Casing Program:

Casing Depth From (ft)	Casing Setting Depth(ft) MD	Casing Setting Depth(ft) TVD	Open Hole Size (inches)	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Conditon	SI Surface Pressure & BHP (psig)	Mud Weight (ppg)	Collapse SF (1.125)	Burst SF (1.125)	Cumulative Air Weight (lbs)	Tension SF (1.6)
Surface														
0'	1740'	1700'	17 1/2	13 3/8	54.5	J-55	ST&C	New	765	8.4	1.52	3.6	92650	5.5
Intermediate														
0'	5160'	5160'	12 1/4	9 5/8	40	N-80	LT&C	New	2322	9	1.28	2.5	206400	3.6
Production														
0'	9323'	9323'	8 3/4	5 1/2	17	P-110	LT&C	New	2300	8.4	1.84	4.6	170000	2.6
9323'	14221'	10000'	8 3/4	5 1/2	17	P-110	BT&C	New	4500	8.4	1.71	2.4	11509	47.4

Casing Design Criteria and Casing Loading Assumptions:

Surface, Intermediate and Production Casing:

Tension: A 1.6 design factor without effects of buoyancy.

Collapse: A 1.125 design factor with full internal evacuation.

Burst: A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

Drilling Plan
Hanson 26 Federal Com 5H
 Cimarex Energy Co.
 UL: A, Sec: 26-20S-34E
 Lea County, NM

9 Cementing Program:

Surface	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	1080	1.75	13.5	1890	Class C + Bentonite + Calcium Chloride + LCM
Tail	230	1.34	14.8	295	Class C + LCM

TOC: 0' 85% Excess Centralizers per Onshore Order 2.III.B.1f

Intermediate	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	1090	1.88	12.9	2036	35:65 (poz/C) + Salt + Bentonite + LCM + retarder
Tail	310	1.34	14.8	415	Class C + retarder + LCM

TOC: 0' 77% Excess

Production	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	532	2.4	11.9	1276	35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder
Tail	1380	1.24	14.5	1712	50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder

Cement volumes will be adjusted depending on hole size.

TOC: 4660' 25% Excess No centralizers planned in the lateral section. 1 every jt from EOC to KOP. 1 every 4th joint from KOP to 500' inside previous casing.

10 Pressure Control Equipment:

Exhibit "E-1". A 13 3/8" 5000 PSI working pressure BOP, tested to 3000 psi on the surface casing and 5000 psi on the intermediate, consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head as needed. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be installed and operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling.

BOPS will be tested by an independent service company to 250 psi low and 3000 psi high on the surface casing and 250 psi low and 5000 psi high on the intermediate. Hydril will be tested to 250 psi low and 2500 psi high on the surface and intermediate casings.

Cimarex Energy Co. of Colorado requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached (please see Exhibit F, F-1, F-2, F-3). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

Application to Drill
Hanson 26 Federal Com 5H
 Cimarex Energy Co.
 UL: A, Sec. 26-20S-34E
 Lea County, NM

11 Proposed Mud Circulating System:

Depth		Mud Wt	Visc	Fluid Loss	Type Mud
0'	to 1700'	1740 8.4	28	NC	FW Spud Mud
1700'	to 5160'	5550 9	30-32	NC	Brine water <i>See COA</i>
5160'	to 14221'	8.4	30-32	NC	FW/Cut Brine

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

The Mud Monitoring System is an electronic Pason System satisfying requirements of Onshore Order 1.

12 Proposed Drilling Plan

Pilot Hole TD: No Pilot Hole

KOP: 9,323'

EOC: 10050'

Set Surface and Intermediate casing strings. Drill production hole to KOP. Continue drilling lateral through the curve to TD. Run prod casing & cement.

13 Testing, Logging and Coring Program:

- A. Mud logging program: 2 man unit from 5160 to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR -- Inter. Csg to TD
- C. No DSTs or cores are planned at this time.
- D. CBL w/ CCL from as far as gravity will let it fall to TOC

See COA

14 Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Cimarex does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S Safety package on all wells, attached is an "H₂S Drilling Operations Plan." Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP

4500 psi

Estimated BHT

138°

15 Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved.

Drilling expected to take : 35 days

If production casing is run an additional 30 days will be required to complete and construct surface facilities.

16 Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from TD over possible pay intervals.

Bone Spring pay will be perforated and stimulated.

The proposed well will be tested and potential as Oil



Cimarex Hanson 26 Federal Com #5H Rev0 RJS 6-Feb-13 Proposal Report
100' Interpolated
(Non-Def Plan)



Report Date: February 06, 2013 - 11:10 AM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: TBD / Cimarex Hanson 26 Federal Com #5H
Well: Cimarex Hanson 26 Federal Com #5H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Hanson 26 Federal Com #5H Rev0 RJS 6-Feb-13
Survey Date: February 06, 2013
Tort / AHD / DDI / ERD Ratio: 87.255 ° / 4620.673 ft / 5.758 / 0.462
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 33' 1.61558", W 103° 31' 25.98393"
Location Grid N/E Y/X: N 564931.900 ftUS, E 790749.900 ftUS
CRS Grid Convergence Angle: 0.4355 °
Grid Scale Factor: 0.99998033

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 180.322 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Ground Level
TVD Reference Elevation: 3694.000 ft above MSL
Seabed / Ground Elevation: 3694.000 ft above MSL
Magnetic Declination: 7.490 °
Total Gravity Field Strength: 998.4867mgn (9.80665 Based)
Total Magnetic Field Strength: 48634.537 nT
Magnetic Dip Angle: 60.420 °
Declination Date: February 06, 2013
Magnetic Declination Model: BGGM 2012
North Reference: Grid North
Grid Convergence Used: 0.4355 °
Total Corr Mag North->Grid North: 7.0543 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)
SHL Hanson 26 Fed Com #5H	0.00	0.00	180.32	0.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	N/A
	100.00	0.00	180.32	100.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	200.00	0.00	180.32	200.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	300.00	0.00	180.32	300.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	400.00	0.00	180.32	400.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	500.00	0.00	180.32	500.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	600.00	0.00	180.32	600.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	700.00	0.00	180.32	700.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	800.00	0.00	180.32	800.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	900.00	0.00	180.32	900.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	1000.00	0.00	180.32	1000.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	1100.00	0.00	180.32	1100.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	1200.00	0.00	180.32	1200.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	1300.00	0.00	180.32	1300.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	1400.00	0.00	180.32	1400.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	1500.00	0.00	180.32	1500.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	1600.00	0.00	180.32	1600.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	1700.00	0.00	180.32	1700.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	1800.00	0.00	180.32	1800.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	1900.00	0.00	180.32	1900.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	2000.00	0.00	180.32	2000.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	2100.00	0.00	180.32	2100.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	2200.00	0.00	180.32	2200.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	2300.00	0.00	180.32	2300.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	2400.00	0.00	180.32	2400.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	2500.00	0.00	180.32	2500.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	2600.00	0.00	180.32	2600.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	2700.00	0.00	180.32	2700.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	2800.00	0.00	180.32	2800.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS ("/100ft)
KOP - Build @ 12"/100' DLS	8400.00	0.00	180.32	8400.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	8500.00	0.00	180.32	8500.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	8600.00	0.00	180.32	8600.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	8700.00	0.00	180.32	8700.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	8800.00	0.00	180.32	8800.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	8900.00	0.00	180.32	8900.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	9000.00	0.00	180.32	9000.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	9100.00	0.00	180.32	9100.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	9200.00	0.00	180.32	9200.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	9300.00	0.00	180.32	9300.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	9323.00	0.00	180.32	9323.00	0.00	0.00	0.00	564931.90	790749.90	N 32 33 1.62	W 103 31 25.98	0.00	0.00	0.00
	9400.00	9.24	180.32	9399.67	6.19	-6.19	-0.04	564925.71	790749.86	N 32 33 1.55	W 103 31 25.98	6.19	180.32	12.00
	9500.00	21.24	180.32	9495.98	32.43	-32.43	-0.18	564899.47	790749.72	N 32 33 1.29	W 103 31 25.99	32.43	180.32	12.00
	9600.00	33.23	180.32	9584.73	78.11	-78.11	-0.44	564853.79	790749.46	N 32 33 0.84	W 103 31 26.00	78.11	180.32	12.00
	9700.00	45.23	180.32	9662.04	141.24	-141.24	-0.80	564790.66	790749.10	N 32 33 0.22	W 103 31 26.01	141.24	180.32	12.00
	9800.00	57.23	180.32	9724.55	219.07	-219.06	-1.24	564712.84	790748.66	N 32 32 59.45	W 103 31 26.02	219.07	180.32	12.00
	9900.00	69.23	180.32	9769.51	308.18	-308.18	-1.74	564623.73	790748.16	N 32 32 58.57	W 103 31 26.03	308.18	180.32	12.00
	10000.00	81.23	180.32	9794.96	404.70	-404.70	-2.29	564527.21	790747.61	N 32 32 57.61	W 103 31 26.05	404.70	180.32	12.00
	10050.21	87.25	180.32	9800.00	454.64	-454.63	-2.57	564477.28	790747.33	N 32 32 57.12	W 103 31 26.05	454.64	180.32	12.00
	10100.00	87.25	180.32	9802.39	504.37	-504.36	-2.85	564427.55	790747.05	N 32 32 56.63	W 103 31 26.06	504.37	180.32	0.00
	10200.00	87.25	180.32	9807.19	604.25	-604.24	-3.42	564327.67	790746.48	N 32 32 55.64	W 103 31 26.08	604.25	180.32	0.00
Landing Point	10300.00	87.25	180.32	9811.98	704.14	-704.13	-3.98	564227.79	790745.92	N 32 32 54.65	W 103 31 26.09	704.14	180.32	0.00
	10400.00	87.25	180.32	9816.78	804.02	-804.01	-4.55	564127.91	790745.35	N 32 32 53.66	W 103 31 26.11	804.02	180.32	0.00
	10500.00	87.25	180.32	9821.58	903.91	-903.89	-5.11	564028.03	790744.79	N 32 32 52.67	W 103 31 26.12	903.91	180.32	0.00
	10600.00	87.25	180.32	9826.38	1003.79	-1003.78	-5.67	563928.15	790744.23	N 32 32 51.68	W 103 31 26.14	1003.79	180.32	0.00
	10700.00	87.25	180.32	9831.17	1103.68	-1103.66	-6.24	563828.26	790743.66	N 32 32 50.70	W 103 31 26.15	1103.68	180.32	0.00
	10800.00	87.25	180.32	9835.97	1203.56	-1203.54	-6.80	563728.38	790743.10	N 32 32 49.71	W 103 31 26.17	1203.56	180.32	0.00
	10900.00	87.25	180.32	9840.77	1303.45	-1303.43	-7.37	563628.50	790742.53	N 32 32 48.72	W 103 31 26.19	1303.45	180.32	0.00
	11000.00	87.25	180.32	9845.56	1403.33	-1403.31	-7.93	563528.62	790741.97	N 32 32 47.73	W 103 31 26.20	1403.33	180.32	0.00
	11100.00	87.25	180.32	9850.36	1503.22	-1503.19	-8.49	563428.74	790741.41	N 32 32 46.74	W 103 31 26.22	1503.22	180.32	0.00
	11200.00	87.25	180.32	9855.16	1603.10	-1603.08	-9.06	563328.86	790740.84	N 32 32 45.75	W 103 31 26.23	1603.10	180.32	0.00
	11300.00	87.25	180.32	9859.95	1702.99	-1702.96	-9.62	563228.98	790740.28	N 32 32 44.77	W 103 31 26.25	1702.99	180.32	0.00
	11400.00	87.25	180.32	9864.75	1802.87	-1802.84	-10.18	563129.10	790739.72	N 32 32 43.78	W 103 31 26.26	1802.87	180.32	0.00
	11500.00	87.25	180.32	9869.54	1902.76	-1902.73	-10.74	563029.22	790739.16	N 32 32 42.79	W 103 31 26.28	1902.76	180.32	0.00
	11600.00	87.25	180.32	9874.34	2002.64	-2002.61	-11.31	562929.33	790738.59	N 32 32 41.80	W 103 31 26.29	2002.64	180.32	0.00
	11700.00	87.25	180.32	9879.14	2102.53	-2102.49	-11.87	562829.45	790738.03	N 32 32 40.81	W 103 31 26.31	2102.53	180.32	0.00
	11800.00	87.25	180.32	9883.93	2202.41	-2202.38	-12.43	562729.57	790737.47	N 32 32 39.83	W 103 31 26.32	2202.41	180.32	0.00
	11900.00	87.25	180.32	9888.73	2302.30	-2302.26	-12.99	562629.69	790736.91	N 32 32 38.84	W 103 31 26.34	2302.30	180.32	0.00
	12000.00	87.25	180.32	9893.52	2402.18	-2402.14	-13.56	562529.81	790736.34	N 32 32 37.85	W 103 31 26.36	2402.18	180.32	0.00
	12100.00	87.25	180.32	9898.32	2502.07	-2502.03	-14.12	562429.93	790735.78	N 32 32 36.86	W 103 31 26.37	2502.07	180.32	0.00
	12200.00	87.25	180.32	9903.11	2601.95	-2601.91	-14.68	562330.05	790735.22	N 32 32 35.87	W 103 31 26.39	2601.95	180.32	0.00
	12300.00	87.25	180.32	9907.91	2701.84	-2701.79	-15.24	562230.17	790734.66	N 32 32 34.88	W 103 31 26.40	2701.84	180.32	0.00
	12400.00	87.25	180.32	9912.70	2801.72	-2801.68	-15.80	562130.28	790734.10	N 32 32 33.90	W 103 31 26.42	2801.72	180.32	0.00
	12500.00	87.25	180.32	9917.50	2901.61	-2901.56	-16.36	562030.40	790733.54	N 32 32 32.91	W 103 31 26.43	2901.61	180.32	0.00
	12600.00	87.25	180.32	9922.29	3001.49	-3001.44	-16.92	561930.52	790732.98	N 32 32 31.92	W 103 31 26.45	3001.49	180.32	0.00
	12700.00	87.25	180.32	9927.09	3101.38	-3101.33	-17.49	561830.64	790732.41	N 32 32 30.93	W 103 31 26.46	3101.38	180.32	0.00
	12800.00	87.25	180.32	9931.88	3201.26	-3201.21	-18.05	561730.76	790731.85	N 32 32 29.94	W 103 31 26.48	3201.26	180.32	0.00
	12900.00	87.25	180.32	9936.68	3301.15	-3301.09	-18.61	561630.88	790731.29	N 32 32 28.95	W 103 31 26.49	3301.15	180.32	0.00
	13000.00	87.25	180.32	9941.47	3401.03	-3400.98	-19.17	561531.00	790730.73	N 32 32 27.97	W 103 31 26.51	3401.03	180.32	0.00
	13100.00	87.25	180.32	9946.26	3500.92	-3500.86	-19.73	561431.12	790730.17	N 32 32 26.98	W 103 31 26.53	3500.92	180.32	0.00
	13200.00	87.25	180.32	9951.06	3600.80	-3600.74	-20.29	561331.23	790729.61	N 32 32 25.99	W 103 31 26.54	3600.80	180.32	0.00
	13300.00	87.25	180.32	9955.85	3700.69	-3700.63	-20.85	561231.35	790729.05	N 32 32 25.00	W 103 31 26.56	3700.69	180.32	0.00
	13400.00	87.25	180.32	9960.65	3800.57	-3800.51	-21.41	561131.47	790728.49	N 32 32 24.01	W 103 31 26.57	3800.57	180.32	0.00
	13500.00	87.25	180.32	9965.44	3900.46	-3900.39	-21.97	561031.59	790727.93	N 32 32 23.03	W 103 31 26.59	3900.46	180.32	0.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS ("/100ft)
	13600.00	87.25	180.32	9970.23	4000.34	-4000.28	-22.53	560931.71	790727.37	N 32 32 22.04	W 103 31 26.60	4000.34	180.32	0.00
	13700.00	87.25	180.32	9975.03	4100.23	-4100.16	-23.09	560831.83	790726.81	N 32 32 21.05	W 103 31 26.62	4100.23	180.32	0.00
	13800.00	87.25	180.32	9979.82	4200.11	-4200.04	-23.65	560731.95	790726.25	N 32 32 20.06	W 103 31 26.63	4200.11	180.32	0.00
	13900.00	87.25	180.32	9984.61	4300.00	-4299.93	-24.21	560632.07	790725.69	N 32 32 19.07	W 103 31 26.65	4300.00	180.32	0.00
	14000.00	87.25	180.32	9989.41	4399.88	-4399.81	-24.77	560532.18	790725.14	N 32 32 18.08	W 103 31 26.66	4399.88	180.32	0.00
	14100.00	87.25	180.32	9994.20	4499.77	-4499.69	-25.32	560432.30	790724.58	N 32 32 17.10	W 103 31 26.68	4499.77	180.32	0.00
	14200.00	87.25	180.32	9998.99	4599.65	-4599.58	-25.88	560332.42	790724.02	N 32 32 16.11	W 103 31 26.69	4599.65	180.32	0.00
Cimarex Hanson 26 Federal Com #5H PBHL	14221.05	87.25	180.32	10000.00	4620.67	-4620.60	-26.00	560311.40	790723.90	N 32 32 15.90	W 103 31 26.70	4620.67	180.32	0.00

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	14221.046	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Hanson 26 Federal Com #5H



Cimarex Hanson 26 Federal Com #5H Rev0 AC 3D Summary Report

Analysis Date-24hr Time: February 06, 2013 - 11:08
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure: Cimarex Hanson 26 Federal Com #5H
Slot: Cimarex Hanson 26 Federal Com #5H
Well: Cimarex Hanson 26 Federal Com #5H
Borehole: Original Borehole

Analysis Method: 3D Least Distance
Reference Trajectory: Cimarex Hanson 26 Federal Com #5H Rev0 RJS 6-Feb-13 (Non-Def Plan)
Depth Interval: Every 10.00 Measured Depth (ft)
Rule Set: D&M AntiCollision Standard S002 v5.1/5.2
Min Pts: All local minima indicated.

Offset Trajectories Summary

Offset Selection Criteria

Wellhead distance scan: Restricted within 55231.54 ft
Selection filters: Definitive Surveys
- All Non-Def Surveys when no Def-Survey is set in a borehole

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
Cimarex Hanson 26 Federal Com #4H Gyro+MWD On to 15457ft MD (Def Survey)													
	180.01	32.81	177.51	147.21	227520.29	MAS = 10.00 (m)	0.00	0.00					MinPts
	180.10	32.81	177.47	147.29	1369.76	MAS = 10.00 (m)	40.00	40.00					MINPT-O-EQU
	181.02	32.81	177.45	148.22	166.28	MAS = 10.00 (m)	240.00	240.00					MINPT-O-EQU
	197.07	32.81	183.69	164.26	17.89	MAS = 10.00 (m)	2060.00	2060.00					MinPts
	197.44	32.81	183.34	164.64	16.81	MAS = 10.00 (m)	2210.00	2210.00					MINPT-O-EQU
	195.47	32.81	179.11	162.66	13.93	MAS = 10.00 (m)	2860.00	2860.00					MinPts
	195.44	32.81	177.21	162.63	12.26	MAS = 10.00 (m)	3330.00	3330.00					MinPts
	195.35	32.81	175.97	162.54	11.42	MAS = 10.00 (m)	3600.00	3600.00					MinPts
	194.88	32.81	174.14	162.07	10.55	MAS = 10.00 (m)	3920.00	3920.00					MinPts
	194.93	32.81	174.07	162.12	10.48	MAS = 10.00 (m)	3950.00	3950.00					MINPT-O-EQU
	194.44	32.98	171.62	161.46	9.45	OSF 1.50	4460.00	4460.00					MinPt-CICt
	194.57	33.40	171.47	161.17	9.32	OSF 1.50	4520.00	4520.00					MINPT-O-EQU
	195.02	35.71	170.37	159.30	8.69	OSF 1.50	4860.00	4860.00					MinPt-CICt
	195.04	37.06	169.51	157.99	8.36	OSF 1.50	5070.00	5070.00					MinPt-CICt
	195.17	38.96	168.37	156.21	7.93	OSF 1.50	5350.00	5350.00					MinPt-CICt
	194.88	40.77	166.87	154.11	7.54	OSF 1.50	5630.00	5630.00					MinPt-CICt
	195.77	44.37	165.35	151.40	6.92	OSF 1.50	6180.00	6180.00					MinPt-CICt
	195.66	45.75	164.53	150.11	6.71	OSF 1.50	6390.00	6390.00					MinPt-CICt
	195.75	46.99	163.59	148.76	6.52	OSF 1.50	6590.00	6590.00					MinPt-CICt
	195.97	51.81	160.60	144.16	5.89	OSF 1.50	7320.00	7320.00					MinPt-CICt
	196.36	55.15	158.76	141.21	5.52	OSF 1.50	7830.00	7830.00					MinPt-CICt
	196.35	57.18	157.39	139.16	5.32	OSF 1.50	8140.00	8140.00					MinPt-CICt
	195.47	60.27	154.46	135.20	5.01	OSF 1.50	8610.00	8610.00					MinPt-CICt
	195.48	60.41	154.38	135.08	5.00	OSF 1.50	8630.00	8630.00	OSF<5.00				Enter Alert
	195.02	62.05	152.82	132.97	4.85	OSF 1.50	8890.00	8880.00					MinPt-CICt
	195.22	62.72	152.58	132.51	4.80	OSF 1.50	8980.00	8980.00					MINPT-O-EQU
	196.61	65.00	152.44	131.61	4.66	OSF 1.50	9323.00	9323.00					MinPts
	207.13	64.09	163.57	143.04	4.98	OSF 1.50	9530.00	9523.58	OSF>5.00				Exit Alert
	1177.59	142.07	1082.04	1035.52	12.63	OSF 1.50	14221.05	10000.00					MinPts



Cimarex Hanson 26 Federal Com #5H Rev0 AC 3D Detailed Report

Analysis Method: 3D Least Distance
Depth Interval: Every 10.00 (ft) Measured Depth
Step-down Trajectory: Reference Trajectory
Analysis Date-24hr Time: February 08, 2013 - 11:08
Analysis Machine: SLB-C1DP5S1
Database \ Project: localhost\drilling-New Mexico 2.6

Distance Unit: ft
Azimuth Unit: deg
TC Azimuth Reference: North
North Reference: Grid
Client: Cimarex
Version / Patch: 2.6.1166.0

NOTE: Measured Depth is referenced to individual borehole elevation.
TVD, NS, EW are referenced to the reference trajectory's wellhead location and borehole elevation.
A minimum of 0.300 m is always included for borehole diameters.

Anti-Collision Rules Used

Rule Set Name
D&M AntiCollision Standard S002 v5.1/5.2

Rule Name
SLB Alert Zone Threshold OSF=5.0 S002 v5.1/5.2
SLB Minor Risk Threshold OSF=1.5 S002 v5.1/5.2
SLB Major Risk Threshold OSF=1.0 S002 v5.1/5.2
SLB Surface Rule S002 v5.1/5.2
SLB Alert Zone Threshold CtCt<=15m S002 v5.1/5.2

Risk Level
Alert
Minor
Major
Major
Major
Alert

Exemption Risk Level: Minor
Rule Type
Ratio
Ratio
CT_CT
CT_CT

Rule Label
OSF = 5.00
OSF = 1.50
OSF = 1.00
MAS = 32.81 (ft)
MAS = 49.21 (ft)

NoGo Rule
X

		Reference Trajectory Summary	
Field:	NM Lea County (NAD 83)	Well:	Cimarex Hanson 26 Federal Com #5H
Structure:	Cimarex Hanson 26 Federal Com #5H	Borehole:	Original Borehole
Slot:	Cimarex Hanson 26 Federal Com #5H	Trajectory:	Cimarex Hanson 26 Federal Com #5H Rev0 RJS 6-Feb-13
Client:	Cimarex	Type:	Non-Def Plan
Coordinate System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet		
North Reference:	Grid	Grid Convergence Angle:	0.43553840°
		Grid Scale Factor:	0.999980331
Magnetic Declination:	7.490°	Magnetic Declination Date:	February 06, 2013
Reference Point:		Magnetic Model:	BGGM 2012
Northing	Easting	Elevation	Structure Unc.
564931.900 (ftUS)	790749.900 (ftUS)	3694.000 (ft) MSL	0.000 (ft) (3 sigma)
			Slot Unc.
			0.000 (ft) (3 sigma)

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog:				Survey Tool Type	Hole Diameter (in)	Borehole / Survey
Description	MD From (ft)	MD To (ft)	EOU Freq (ft)			
	0.000	14221.046	1/100.000	SLB_MWD-STD-No Global	30.000	hanson 26 Federal Com #5H Rev0 RJS 6-Feb-13

Offset Trajectory Summary

Offset Selection Criteria:

Wellhead distance scan: Restricted within 55231.54 ft
Offset Selection Criteria: Definitive Surveys
- All Non-Def Surveys when no Def-Survey is set in a borehole

Offset Selection Summary

Wells Selected:1
Boreholes Selected:1
Definitive Surveys Selected:1
Non-Def Surveys Selected:0
Definitive Plans Selected:0
Non-Def Plans Selected:0
Total Trajectories:1
None OSF filter in detailed report

Trajectory

Cimarex Hanson 26 Federal Com #4H Gyro-MWD 0ft to 15457ft MD

Borehole

Original Borehole

Well

Cimarex Hanson 26 Federal Com #4H

Type

Def Survey

Field: NM Lea County (NAD 83)
 Structure: Cimarex Hanson 26 Federal Com #4H
 Slot: Cimarex Hanson 26 Federal Com #4H
 Client: Cimarex
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.43522408°
 Well: Cimarex Hanson 26 Federal Com #4H
 Borehole: Original Borehole
 Trajectory: Cimarex Hanson 26 Federal Com #4H Gyro+MWD 0ft to 15457ft MD
 Type: Def Survey
 Grid Scale Factor: 0.999980229
 Magnetic Declination: 7.505°
 Magnetic Declination Date: December 20, 2012
 Magnetic Model: BGGM 2012
 Reference Point:
 Northing: 564930.700 (ftUS)
 Easting: 790569.900 (ftUS)
 Elevation: 3709.000 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog:

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Diameter (in)	Borehole / Survey
	0.000	18.000	Act-Stns	SLB_NSG+MSHOT-Depth Only-No Global	30.000	Federal Com #4H Gyro+MWD 0ft to 15457ft MD
	18.000	5353.800	Act-Stns	SLB_NSG+MSHOT-No Global	30.000	Federal Com #4H Gyro+MWD 0ft to 15457ft MD
	5353.800	10381.810	Act-Stns	SLB_MWD-POCR-No Global	30.000	Federal Com #4H Gyro+MWD 0ft to 15457ft MD
	10381.810	15403.000	Act-Stns	SLB_MWD-STD-No Global	30.000	Federal Com #4H Gyro+MWD 0ft to 15457ft MD
	15403.000	15457.000	Act-Stns	SLB_BLIND+TREND-No Global	30.000	Federal Com #4H Gyro+MWD 0ft to 15457ft MD

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.														
0.00	0.00	0.00	0.00	14.83	-0.17	-1.19	-180.01	269.62	180.01	32.81	177.51	227520.29 IAS = 10.00 (m)	Pass	
10.00	10.00	0.00	0.00	24.72	9.72	-1.18	-180.02	269.62	180.03	32.81	177.50	6122.16 IAS = 10.00 (m)	Pass	
20.00	20.00	0.00	0.00	34.61	19.61	-1.17	-180.04	269.63	180.05	32.81	177.48	2843.47 IAS = 10.00 (m)	Pass	
30.00	30.00	0.00	0.00	44.50	29.50	-1.15	-180.07	269.63	180.07	32.81	177.47	1849.25 IAS = 10.00 (m)	Pass	
40.00	40.00	0.00	0.00	54.39	39.39	-1.12	-180.10	269.64	180.10	32.81	177.47	1369.76 IAS = 10.00 (m)	Pass	
50.00	50.00	0.00	0.00	64.28	49.28	-1.09	-180.13	269.65	180.14	32.81	177.48	1087.55 IAS = 10.00 (m)	Pass	
60.00	60.00	0.00	0.00	74.16	59.16	-1.06	-180.18	269.66	180.18	32.81	177.48	901.65 IAS = 10.00 (m)	Pass	
70.00	70.00	0.00	0.00	84.05	69.05	-1.01	-180.23	269.68	180.23	32.81	177.50	769.94 IAS = 10.00 (m)	Pass	
80.00	80.00	0.03	0.00	93.94	78.94	-0.97	-180.28	269.69	180.29	32.81	177.52	671.73 IAS = 10.00 (m)	Pass	
90.00	90.00	0.00	0.00	103.89	88.89	-0.92	-180.34	269.71	180.35	32.81	177.55	593.01 IAS = 10.00 (m)	Pass	
100.00	100.00	0.00	0.00	113.95	98.95	-0.86	-180.40	269.73	180.41	32.81	177.57	527.41 IAS = 10.00 (m)	Pass	
110.00	110.00	0.00	0.00	124.00	109.00	-0.80	-180.46	269.74	180.47	32.81	177.58	456.96 IAS = 10.00 (m)	Pass	
120.00	120.00	0.00	0.00	134.06	119.06	-0.75	-180.51	269.76	180.52	32.81	177.58	402.75 IAS = 10.00 (m)	Pass	
130.00	130.00	0.00	0.00	144.12	129.11	-0.69	-180.57	269.78	180.57	32.81	177.57	359.85 IAS = 10.00 (m)	Pass	
140.00	140.00	0.00	0.00	154.17	139.17	-0.62	-180.61	269.80	180.62	32.81	177.57	325.09 IAS = 10.00 (m)	Pass	
150.00	150.00	0.00	0.00	164.23	149.22	-0.56	-180.66	269.82	180.66	32.81	177.56	296.39 IAS = 10.00 (m)	Pass	
160.00	160.00	0.00	0.00	174.28	159.28	-0.49	-180.70	269.84	180.70	32.81	177.55	272.30 IAS = 10.00 (m)	Pass	
170.00	170.00	0.00	0.00	184.34	169.33	-0.43	-180.74	269.87	180.74	32.81	177.53	251.80 IAS = 10.00 (m)	Pass	
180.00	180.00	0.00	0.00	194.39	179.39	-0.36	-180.78	269.89	180.78	32.81	177.52	234.16 IAS = 10.00 (m)	Pass	
190.00	190.00	0.00	0.00	204.40	189.39	-0.28	-180.81	269.91	180.81	32.81	177.50	219.03 IAS = 10.00 (m)	Pass	
200.00	200.00	0.00	0.00	214.33	199.32	-0.21	-180.84	269.93	180.85	32.81	177.48	205.97 IAS = 10.00 (m)	Pass	
210.00	210.00	0.00	0.00	224.26	209.26	-0.14	-180.88	269.96	180.88	32.81	177.47	194.37 IAS = 10.00 (m)	Pass	
220.00	220.00	0.00	0.00	234.19	219.19	-0.06	-180.93	269.98	180.93	32.81	177.46	184.01 IAS = 10.00 (m)	Pass	
230.00	230.00	0.00	0.00	244.12	229.12	0.02	-180.97	270.01	180.97	32.81	177.45	174.70 IAS = 10.00 (m)	Pass	
240.00	240.00	0.00	0.00	254.06	239.05	0.10	-181.02	270.03	181.02	32.81	177.45	166.28 IAS = 10.00 (m)	Pass	
250.00	250.00	0.00	0.00	263.99	248.98	0.18	-181.08	270.06	181.08	32.81	177.45	158.63 IAS = 10.00 (m)	Pass	
260.00	260.00	0.00	0.00	273.92	258.91	0.26	-181.13	270.08	181.14	32.81	177.46	151.66 IAS = 10.00 (m)	Pass	
270.00	270.00	0.00	0.00	283.85	268.85	0.34	-181.19	270.11	181.20	32.81	177.47	145.28 IAS = 10.00 (m)	Pass	
280.00	280.00	0.00	0.00	293.79	278.78	0.43	-181.26	270.13	181.26	32.81	177.48	139.42 IAS = 10.00 (m)	Pass	
290.00	290.00	0.00	0.00	303.74	288.73	0.51	-181.33	270.16	181.33	32.81	177.50	134.08 IAS = 10.00 (m)	Pass	
300.00	300.00	0.00	0.00	313.72	298.71	0.60	-181.40	270.19	181.40	32.81	177.52	129.23 IAS = 10.00 (m)	Pass	
310.00	310.00	0.00	0.00	323.71	308.70	0.68	-181.47	270.22	181.48	32.81	177.54	124.71 IAS = 10.00 (m)	Pass	
320.00	320.00	0.00	0.00	333.69	318.68	0.77	-181.54	270.24	181.55	32.81	177.56	120.50 IAS = 10.00 (m)	Pass	
330.00	330.00	0.00	0.00	343.67	328.66	0.85	-181.61	270.27	181.62	32.81	177.58	116.57 IAS = 10.00 (m)	Pass	
340.00	340.00	0.00	0.00	353.66	338.65	0.93	-181.69	270.29	181.70	32.81	177.61	112.89 IAS = 10.00 (m)	Pass	
350.00	350.00	0.00	0.00	363.64	348.63	1.01	-181.76	270.32	181.77	32.81	177.63	109.43 IAS = 10.00 (m)	Pass	
360.00	360.00	0.00	0.00	373.63	358.61	1.09	-181.84	270.34	181.85	32.81	177.66	106.18 IAS = 10.00 (m)	Pass	
370.00	370.00	0.00	0.00	383.61	368.60	1.17	-181.91	270.37	181.92	32.81	177.68	103.12 IAS = 10.00 (m)	Pass	
380.00	380.00	0.00	0.00	393.59	378.58	1.24	-181.99	270.39	182.00	32.81	177.71	100.23 IAS = 10.00 (m)	Pass	
390.00	390.00	0.00	0.00	403.59	388.58	1.32	-182.07	270.41	182.08	32.81	177.74	97.62 IAS = 10.00 (m)	Pass	
400.00	400.00	0.00	0.00	413.63	398.61	1.39	-182.15	270.44	182.16	32.81	177.77	95.34 IAS = 10.00 (m)	Pass	
410.00	410.00	0.00	0.00	423.66	408.64	1.47	-182.22	270.46	182.23	32.81	177.80	93.16 IAS = 10.00 (m)	Pass	
420.00	420.00	0.00	0.00	433.69	418.67	1.54	-182.29	270.48	182.31	32.81	177.83	91.07 IAS = 10.00 (m)	Pass	
430.00	430.00	0.00	0.00	443.72	428.71	1.61	-182.37	270.51	182.38	32.81	177.86	89.07 IAS = 10.00 (m)	Pass	
440.00	440.00	0.00	0.00	453.76	438.74	1.69	-182.43	270.53	182.45	32.81	177.88	87.15 IAS = 10.00 (m)	Pass	
450.00	450.00	0.00	0.00	463.79	448.77	1.76	-182.50	270.55	182.52	32.81	177.91	85.31 IAS = 10.00 (m)	Pass	
460.00	460.00	0.00	0.00	473.82	458.80	1.83	-182.57	270.57	182.58	32.81	177.93	83.54 IAS = 10.00 (m)	Pass	
470.00	470.00	0.00	0.00	483.85	468.83	1.90	-182.63	270.60	182.65	32.81	177.95	81.85 IAS = 10.00 (m)	Pass	
480.00	480.00	0.00	0.00	493.88	478.86	1.97	-182.70	270.62	182.71	32.81	177.96	80.22 IAS = 10.00 (m)	Pass	
490.00	490.00	0.00	0.00	503.86	488.84	2.04	-182.76	270.64	182.77	32.81	177.98	78.56 IAS = 10.00 (m)	Pass	
500.00	500.00	0.00	0.00	513.76	498.74	2.12	-182.82	270.66	182.84	32.81	177.99	76.84 IAS = 10.00 (m)	Pass	
510.00	510.00	0.00	0.00	523.66	508.63	2.19	-182.89	270.69	182.91	32.81	178.01	75.19 IAS = 10.00 (m)	Pass	
520.00	520.00	0.00	0.00	533.55	518.53	2.27	-182.97	270.71	182.99	32.81	178.04	73.62 IAS = 10.00 (m)	Pass	
530.00	530.00	0.00	0.00	543.45	528.43	2.35	-183.05	270.73	183.07	32.81	178.07	72.11 IAS = 10.00 (m)	Pass	
540.00	540.00	0.00	0.00	553.34	538.32	2.43	-183.14	270.76	183.16	32.81	178.10	70.67 IAS = 10.00 (m)	Pass	
550.00	550.00	0.00	0.00	563.24	548.22	2.51	-183.23	270.79	183.25	32.81	178.14	69.29 IAS = 10.00 (m)	Pass	
560.00	560.00	0.00	0.00	573.13	558.11	2.60	-183.33	270.81	183.35	32.81	178.19	67.96 IAS = 10.00 (m)	Pass	
570.00	570.00	0.00	0.00	583.03	568.00	2.69	-183.43	270.84	183.46	32.81	178.25	66.68 IAS = 10.00 (m)	Pass	
580.00	580.00	0.00	0.00	592.93	577.90	2.78	-183.54	270.87	183.57	32.81	178.31	65.46 IAS = 10.00 (m)	Pass	
590.00	590.00	0.00	0.00	602.85	587.82	2.88	-183.65	270.90	183.69	32.81	178.37	64.25 IAS = 10.00 (m)	Pass	
600.00	600.00	0.00	0.00	612.84	597.81	2.97	-183.77	270.93	183.81	32.81	178.43	63.01 IAS = 10.00 (m)	Pass	
610.00	610.00	0.00	0.00	622.83	607.80	3.07	-183.89	270.96	183.93	32.81	178.49	61.83 IAS = 10.00 (m)	Pass	
620.00	620.00	0.00	0.00	632.82	617.79	3.16	-184.01	270.98	184.05	32.81	178.55	60.68 IAS = 10.00 (m)	Pass	
630.00	630.00	0.00	0.00	642.81	627.78	3.25	-184.12	271.01	184.17	32.81	178.62	59.58 IAS = 10.00 (m)	Pass	
640.00	640.00	0.00	0.00	652.80	637.77	3.35	-184.24	271.04	184.29	32.81	178.68	58.52 IAS = 10.00 (m)	Pass	

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
650.00	650.00	0.00	0.00	662.80	647.76	3.44	-184.36	271.07	184.41	32.81	178.74	57.50 IAS = 10.00 (m)	Pass	Pass
660.00	660.00	0.00	0.00	672.79	657.75	3.52	-184.48	271.09	184.53	32.81	178.81	56.51 IAS = 10.00 (m)	Pass	Pass
670.00	670.00	0.00	0.00	682.78	667.74	3.61	-184.60	271.12	184.65	32.81	178.87	55.56 IAS = 10.00 (m)	Pass	Pass
680.00	680.00	0.00	0.00	692.77	677.73	3.70	-184.72	271.15	184.77	32.81	178.94	54.64 IAS = 10.00 (m)	Pass	Pass
690.00	690.00	0.00	0.00	702.76	687.72	3.78	-184.84	271.17	184.90	32.81	179.00	53.74 IAS = 10.00 (m)	Pass	Pass
700.00	700.00	0.00	0.00	712.74	697.70	3.87	-184.97	271.20	185.02	32.81	179.07	52.87 IAS = 10.00 (m)	Pass	Pass
710.00	710.00	0.00	0.00	722.72	707.68	3.95	-185.09	271.22	185.15	32.81	179.14	52.02 IAS = 10.00 (m)	Pass	Pass
720.00	720.00	0.00	0.00	732.70	717.66	4.02	-185.21	271.24	185.27	32.81	179.20	51.21 IAS = 10.00 (m)	Pass	Pass
730.00	730.00	0.00	0.00	742.68	727.63	4.10	-185.34	271.27	185.40	32.81	179.27	50.42 IAS = 10.00 (m)	Pass	Pass
740.00	740.00	0.00	0.00	752.66	737.61	4.17	-185.47	271.29	185.53	32.81	179.34	49.65 IAS = 10.00 (m)	Pass	Pass
750.00	750.00	0.00	0.00	762.64	747.59	4.24	-185.59	271.31	185.66	32.81	179.41	48.91 IAS = 10.00 (m)	Pass	Pass
760.00	760.00	0.00	0.00	772.62	757.57	4.30	-185.72	271.33	185.79	32.81	179.48	48.22 IAS = 10.00 (m)	Pass	Pass
770.00	770.00	0.00	0.00	782.60	767.55	4.36	-185.85	271.34	185.92	32.81	179.56	47.50 IAS = 10.00 (m)	Pass	Pass
780.00	780.00	0.00	0.00	792.58	777.53	4.42	-185.98	271.36	186.05	32.81	179.63	46.82 IAS = 10.00 (m)	Pass	Pass
790.00	790.00	0.00	0.00	802.54	787.49	4.47	-186.11	271.38	186.18	32.81	179.70	46.15 IAS = 10.00 (m)	Pass	Pass
800.00	800.00	0.00	0.00	812.45	797.40	4.53	-186.25	271.39	186.32	32.81	179.78	45.46 IAS = 10.00 (m)	Pass	Pass
810.00	810.00	0.00	0.00	822.36	807.31	4.58	-186.39	271.41	186.46	32.81	179.86	44.80 IAS = 10.00 (m)	Pass	Pass
820.00	820.00	0.00	0.00	832.33	817.27	4.62	-186.53	271.42	186.61	32.81	179.94	44.16 IAS = 10.00 (m)	Pass	Pass
830.00	830.00	0.00	0.00	842.35	827.30	4.67	-186.68	271.43	186.75	32.81	180.03	43.56 IAS = 10.00 (m)	Pass	Pass
840.00	840.00	0.00	0.00	852.38	837.33	4.72	-186.82	271.45	186.90	32.81	180.11	42.98 IAS = 10.00 (m)	Pass	Pass
850.00	850.00	0.00	0.00	862.41	847.35	4.76	-186.96	271.46	187.04	32.81	180.19	42.41 IAS = 10.00 (m)	Pass	Pass
860.00	860.00	0.00	0.00	872.44	857.38	4.80	-187.10	271.47	187.18	32.81	180.27	41.86 IAS = 10.00 (m)	Pass	Pass
870.00	870.00	0.00	0.00	882.47	867.41	4.84	-187.24	271.48	187.32	32.81	180.35	41.32 IAS = 10.00 (m)	Pass	Pass
880.00	880.00	0.00	0.00	892.50	877.44	4.87	-187.38	271.49	187.46	32.81	180.42	40.80 IAS = 10.00 (m)	Pass	Pass
890.00	890.00	0.00	0.00	902.52	887.46	4.91	-187.51	271.50	187.59	32.81	180.50	40.29 IAS = 10.00 (m)	Pass	Pass
900.00	900.00	0.00	0.00	912.55	897.49	4.94	-187.65	271.51	187.73	32.81	180.57	39.79 IAS = 10.00 (m)	Pass	Pass
910.00	910.00	0.00	0.00	922.58	907.52	4.97	-187.78	271.52	187.86	32.81	180.65	39.31 IAS = 10.00 (m)	Pass	Pass
920.00	920.00	0.00	0.00	932.62	917.56	5.00	-187.91	271.52	187.99	32.81	180.72	38.87 IAS = 10.00 (m)	Pass	Pass
930.00	930.00	0.00	0.00	942.66	927.59	5.03	-188.04	271.53	188.12	32.81	180.79	38.44 IAS = 10.00 (m)	Pass	Pass
940.00	940.00	0.00	0.00	952.70	937.63	5.06	-188.17	271.54	188.25	32.81	180.86	38.02 IAS = 10.00 (m)	Pass	Pass
950.00	950.00	0.00	0.00	962.73	947.67	5.08	-188.29	271.55	188.37	32.81	180.93	37.61 IAS = 10.00 (m)	Pass	Pass
960.00	960.00	0.00	0.00	972.77	957.71	5.11	-188.41	271.55	188.50	32.81	181.00	37.21 IAS = 10.00 (m)	Pass	Pass
970.00	970.00	0.00	0.00	982.81	967.74	5.13	-188.53	271.56	188.62	32.81	181.06	36.82 IAS = 10.00 (m)	Pass	Pass
980.00	980.00	0.00	0.00	992.85	977.78	5.15	-188.65	271.56	188.74	32.81	181.12	36.44 IAS = 10.00 (m)	Pass	Pass
990.00	990.00	0.00	0.00	1002.89	987.82	5.18	-188.77	271.57	188.85	32.81	181.18	36.06 IAS = 10.00 (m)	Pass	Pass
1000.00	1000.00	0.00	0.00	1012.93	997.86	5.20	-188.88	271.58	188.97	32.81	181.24	35.70 IAS = 10.00 (m)	Pass	Pass
1010.00	1010.00	0.00	0.00	1022.93	1007.86	5.22	-188.99	271.58	189.08	32.81	181.30	35.32 IAS = 10.00 (m)	Pass	Pass
1020.00	1020.00	0.00	0.00	1032.89	1017.82	5.24	-189.11	271.59	189.19	32.81	181.35	34.94 IAS = 10.00 (m)	Pass	Pass
1030.00	1030.00	0.00	0.00	1042.84	1027.77	5.25	-189.22	271.59	189.31	32.81	181.41	34.57 IAS = 10.00 (m)	Pass	Pass
1040.00	1040.00	0.00	0.00	1052.80	1037.73	5.27	-189.34	271.59	189.43	32.81	181.46	34.21 IAS = 10.00 (m)	Pass	Pass
1050.00	1050.00	0.00	0.00	1062.75	1047.68	5.29	-189.46	271.60	189.55	32.81	181.52	33.86 IAS = 10.00 (m)	Pass	Pass
1060.00	1060.00	0.00	0.00	1072.71	1057.64	5.30	-189.58	271.60	189.67	32.81	181.59	33.51 IAS = 10.00 (m)	Pass	Pass
1070.00	1070.00	0.00	0.00	1082.66	1067.59	5.31	-189.71	271.60	189.80	32.81	181.65	33.17 IAS = 10.00 (m)	Pass	Pass
1080.00	1080.00	0.00	0.00	1092.62	1077.54	5.32	-189.84	271.61	189.93	32.81	181.72	32.84 IAS = 10.00 (m)	Pass	Pass
1090.00	1090.00	0.00	0.00	1102.57	1087.50	5.33	-189.97	271.61	190.06	32.81	181.79	32.52 IAS = 10.00 (m)	Pass	Pass
1100.00	1100.00	0.00	0.00	1112.53	1097.45	5.34	-190.10	271.61	190.19	32.81	181.86	32.20 IAS = 10.00 (m)	Pass	Pass
1110.00	1110.00	0.00	0.00	1122.46	1107.38	5.34	-190.23	271.61	190.33	32.81	181.93	31.88 IAS = 10.00 (m)	Pass	Pass
1120.00	1120.00	0.00	0.00	1132.38	1117.30	5.35	-190.37	271.61	190.47	32.81	182.01	31.55 IAS = 10.00 (m)	Pass	Pass
1130.00	1130.00	0.00	0.00	1142.30	1127.22	5.35	-190.51	271.61	190.61	32.81	182.09	31.23 IAS = 10.00 (m)	Pass	Pass
1140.00	1140.00	0.00	0.00	1152.22	1137.14	5.35	-190.66	271.61	190.76	32.81	182.17	30.92 IAS = 10.00 (m)	Pass	Pass
1150.00	1150.00	0.00	0.00	1162.14	1147.06	5.35	-190.81	271.61	190.91	32.81	182.26	30.62 IAS = 10.00 (m)	Pass	Pass
1160.00	1160.00	0.00	0.00	1172.06	1156.98	5.35	-190.97	271.60	191.07	32.81	182.35	30.33 IAS = 10.00 (m)	Pass	Pass
1170.00	1170.00	0.00	0.00	1181.98	1166.89	5.35	-191.13	271.60	191.23	32.81	182.44	30.04 IAS = 10.00 (m)	Pass	Pass
1180.00	1180.00	0.00	0.00	1191.90	1176.81	5.34	-191.29	271.60	191.39	32.81	182.54	29.75 IAS = 10.00 (m)	Pass	Pass
1190.00	1190.00	0.00	0.00	1201.82	1186.73	5.33	-191.46	271.60	191.56	32.81	182.65	29.48 IAS = 10.00 (m)	Pass	Pass
1200.00	1200.00	0.00	0.00	1211.76	1196.67	5.33	-191.63	271.59	191.73	32.81	182.75	29.21 IAS = 10.00 (m)	Pass	Pass
1210.00	1210.00	0.00	0.00	1221.78	1206.69	5.31	-191.80	271.59	191.91	32.81	182.86	28.95 IAS = 10.00 (m)	Pass	Pass
1220.00	1220.00	0.00	0.00	1231.80	1216.71	5.29	-191.98	271.58	192.08	32.81	182.97	28.70 IAS = 10.00 (m)	Pass	Pass
1230.00	1230.00	0.00	0.00	1241.82	1226.72	5.27	-192.15	271.57	192.25	32.81	183.08	28.45 IAS = 10.00 (m)	Pass	Pass
1240.00	1240.00	0.00	0.00	1251.84	1236.74	5.24	-192.32	271.56	192.42	32.81	183.18	28.20 IAS = 10.00 (m)	Pass	Pass
1250.00	1250.00	0.00	0.00	1261.86	1246.76	5.20	-192.49	271.55	192.59	32.81	183.29	27.96 IAS = 10.00 (m)	Pass	Pass
1260.00	1260.00	0.00	0.00	1271.88	1256.78	5.15	-192.66	271.53	192.75	32.81	183.39	27.73 IAS = 10.00 (m)	Pass	Pass
1270.00	1270.00	0.00	0.00	1281.90	1266.80	5.11	-192.83	271.52	192.92	32.81	183.50	27.49 IAS = 10.00 (m)	Pass	Pass
1280.00	1280.00	0.00	0.00	1291.92	1276.82	5.05	-192.99	271.50	193.09	32.81	183.60	27.27 IAS = 10.00 (m)	Pass	Pass
1290.00	1290.00	0.00	0.00	1301.94	1286.84	4.99	-193.16	271.48	193.25	32.81	183.70	27.04 IAS = 10.00 (m)	Pass	Pass
1300.00	1300.00	0.00	0.00	1312.06	1296.85	4.92	-193.33	271.46	193.41	32.81	183.80	26.85 IAS = 10.00 (m)	Pass	Pass
1310.00	1310.00	0.00	0.00	1322.23	1307.12	4.86	-193.48	271.44	193.57	32.81	183.90	26.66 IAS = 10.00 (m)	Pass	Pass
1320.00	1320.00	0.00	0.00	1332.40	1317.29	4.80	-193.63	271.42	193.71	32.81	183.99	26.48 IAS = 10.00 (m)	Pass	Pass
1330.00	1330.00	0.00	0.00	1342.57	1327.47	4.74	-193.77	271.40	193.84	32.81	184.07	26.30 IAS = 10.00 (m)	Pass	Pass
1340.00	1340.00	0.00	0.00	1352.75	1337.64	4.68	-193.90	271.38	193.97	32.81	184.14	26.12 IAS = 10.00 (m)	Pass	Pass
1350.00	1350.00	0.00	0.00	1362.92	1347.81	4.63	-194.02	271.37	194.09	32.81	184.20	25.94 IAS = 10.00 (m)	Pass	Pass
1360.00	1360.00	0.00	0.00	1373.10	1357.99	4.58	-194.13	271.35	194.20	32.81	184.25	25.76 IAS = 10.00 (m)	Pass	Pass
1370.00	1370.00	0.00	0.00	1383.27	1368.16	4.53	-194.23	271.34	194.30	32.81	184.30	25.58 IAS = 10.00 (m)	Pass	Pass
1380.00	1380.00	0.00	0.00	1393.44	1378.33	4								

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
1500.00	1500.00	0.00	0.00	1513.87	1498.76	4.17	-195.20	271.22	195.25	32.81	184.59	23.63 IAS = 10.00 (m)		Pass
1510.00	1510.00	0.00	0.00	1523.89	1508.77	4.15	-195.26	271.22	195.31	32.81	184.60	23.48 IAS = 10.00 (m)		Pass
1520.00	1520.00	0.00	0.00	1533.90	1518.79	4.13	-195.32	271.21	195.37	32.81	184.60	23.33 IAS = 10.00 (m)		Pass
1530.00	1530.00	0.00	0.00	1543.92	1528.80	4.11	-195.39	271.21	195.43	32.81	184.61	23.18 IAS = 10.00 (m)		Pass
1540.00	1540.00	0.00	0.00	1553.93	1538.81	4.09	-195.45	271.20	195.49	32.81	184.61	23.03 IAS = 10.00 (m)		Pass
1550.00	1550.00	0.00	0.00	1563.94	1548.83	4.07	-195.51	271.19	195.55	32.81	184.62	22.89 IAS = 10.00 (m)		Pass
1560.00	1560.00	0.00	0.00	1573.96	1558.84	4.05	-195.57	271.19	195.61	32.81	184.62	22.74 IAS = 10.00 (m)		Pass
1570.00	1570.00	0.00	0.00	1583.97	1568.85	4.02	-195.63	271.18	195.67	32.81	184.63	22.60 IAS = 10.00 (m)		Pass
1580.00	1580.00	0.00	0.00	1593.98	1578.86	3.99	-195.69	271.17	195.73	32.81	184.63	22.46 IAS = 10.00 (m)		Pass
1590.00	1590.00	0.00	0.00	1603.95	1588.84	3.97	-195.75	271.16	195.79	32.81	184.63	22.32 IAS = 10.00 (m)		Pass
1600.00	1600.00	0.00	0.00	1613.93	1598.82	3.94	-195.81	271.15	195.85	32.81	184.63	22.18 IAS = 10.00 (m)		Pass
1610.00	1610.00	0.00	0.00	1623.91	1608.79	3.92	-195.87	271.15	195.91	32.81	184.64	22.04 IAS = 10.00 (m)		Pass
1620.00	1620.00	0.00	0.00	1633.89	1618.77	3.90	-195.93	271.14	195.97	32.81	184.64	21.90 IAS = 10.00 (m)		Pass
1630.00	1630.00	0.00	0.00	1643.87	1628.75	3.88	-195.99	271.13	196.04	32.81	184.65	21.77 IAS = 10.00 (m)		Pass
1640.00	1640.00	0.00	0.00	1653.85	1638.73	3.86	-196.06	271.13	196.10	32.81	184.65	21.64 IAS = 10.00 (m)		Pass
1650.00	1650.00	0.00	0.00	1663.83	1648.71	3.84	-196.12	271.12	196.17	32.81	184.66	21.51 IAS = 10.00 (m)		Pass
1660.00	1660.00	0.00	0.00	1673.81	1658.69	3.83	-196.19	271.12	196.23	32.81	184.67	21.38 IAS = 10.00 (m)		Pass
1670.00	1670.00	0.00	0.00	1683.78	1668.67	3.81	-196.26	271.11	196.30	32.81	184.68	21.25 IAS = 10.00 (m)		Pass
1680.00	1680.00	0.00	0.00	1693.80	1678.68	3.80	-196.33	271.11	196.37	32.81	184.69	21.13 IAS = 10.00 (m)		Pass
1690.00	1690.00	0.00	0.00	1703.82	1688.70	3.79	-196.39	271.10	196.43	32.81	184.70	21.01 IAS = 10.00 (m)		Pass
1700.00	1700.00	0.00	0.00	1713.85	1698.73	3.78	-196.46	271.10	196.50	32.81	184.71	20.89 IAS = 10.00 (m)		Pass
1710.00	1710.00	0.00	0.00	1723.88	1708.76	3.76	-196.52	271.10	196.56	32.81	184.72	20.78 IAS = 10.00 (m)		Pass
1720.00	1720.00	0.00	0.00	1733.90	1718.78	3.75	-196.59	271.09	196.63	32.81	184.73	20.67 IAS = 10.00 (m)		Pass
1730.00	1730.00	0.00	0.00	1743.93	1728.81	3.75	-196.65	271.09	196.69	32.81	184.74	20.55 IAS = 10.00 (m)		Pass
1740.00	1740.00	0.00	0.00	1753.96	1738.84	3.74	-196.71	271.09	196.75	32.81	184.74	20.44 IAS = 10.00 (m)		Pass
1750.00	1750.00	0.00	0.00	1763.98	1748.86	3.73	-196.77	271.09	196.80	32.81	184.75	20.33 IAS = 10.00 (m)		Pass
1760.00	1760.00	0.00	0.00	1774.01	1758.89	3.72	-196.82	271.08	196.86	32.81	184.75	20.22 IAS = 10.00 (m)		Pass
1770.00	1770.00	0.00	0.00	1784.06	1768.94	3.71	-196.88	271.08	196.92	32.81	184.75	20.11 IAS = 10.00 (m)		Pass
1780.00	1780.00	0.00	0.00	1794.16	1779.04	3.71	-196.93	271.08	196.97	32.81	184.74	20.00 IAS = 10.00 (m)		Pass
1790.00	1790.00	0.00	0.00	1804.26	1789.14	3.70	-196.98	271.08	197.01	32.81	184.73	19.89 IAS = 10.00 (m)		Pass
1800.00	1800.00	0.00	0.00	1814.37	1799.25	3.70	-197.02	271.08	197.06	32.81	184.72	19.77 IAS = 10.00 (m)		Pass
1810.00	1810.00	0.00	0.00	1824.47	1809.35	3.70	-197.06	271.07	197.09	32.81	184.70	19.66 IAS = 10.00 (m)		Pass
1820.00	1820.00	0.00	0.00	1834.58	1819.46	3.69	-197.09	271.07	197.12	32.81	184.67	19.55 IAS = 10.00 (m)		Pass
1830.00	1830.00	0.00	0.00	1844.68	1829.56	3.69	-197.11	271.07	197.15	32.81	184.64	19.45 IAS = 10.00 (m)		Pass
1840.00	1840.00	0.00	0.00	1854.78	1839.66	3.69	-197.13	271.07	197.17	32.81	184.60	19.34 IAS = 10.00 (m)		Pass
1850.00	1850.00	0.00	0.00	1864.89	1849.77	3.69	-197.15	271.07	197.18	32.81	184.56	19.23 IAS = 10.00 (m)		Pass
1860.00	1860.00	0.00	0.00	1874.99	1859.87	3.69	-197.16	271.07	197.19	32.81	184.51	19.12 IAS = 10.00 (m)		Pass
1870.00	1870.00	0.00	0.00	1885.05	1869.93	3.69	-197.16	271.07	197.19	32.81	184.47	19.04 IAS = 10.00 (m)		Pass
1880.00	1880.00	0.00	0.00	1895.09	1879.97	3.69	-197.16	271.07	197.20	32.81	184.43	18.97 IAS = 10.00 (m)		Pass
1890.00	1890.00	0.00	0.00	1905.13	1890.01	3.70	-197.16	271.07	197.20	32.81	184.39	18.89 IAS = 10.00 (m)		Pass
1900.00	1900.00	0.00	0.00	1915.17	1900.05	3.71	-197.16	271.08	197.20	32.81	184.35	18.82 IAS = 10.00 (m)		Pass
1910.00	1910.00	0.00	0.00	1925.22	1910.09	3.72	-197.16	271.08	197.19	32.81	184.31	18.75 IAS = 10.00 (m)		Pass
1920.00	1920.00	0.00	0.00	1935.26	1920.14	3.73	-197.15	271.08	197.19	32.81	184.26	18.67 IAS = 10.00 (m)		Pass
1930.00	1930.00	0.00	0.00	1945.30	1930.18	3.75	-197.14	271.09	197.18	32.81	184.21	18.60 IAS = 10.00 (m)		Pass
1940.00	1940.00	0.00	0.00	1955.34	1940.22	3.77	-197.13	271.10	197.17	32.81	184.16	18.53 IAS = 10.00 (m)		Pass
1950.00	1950.00	0.00	0.00	1965.38	1950.26	3.79	-197.12	271.10	197.16	32.81	184.11	18.45 IAS = 10.00 (m)		Pass
1960.00	1960.00	0.00	0.00	1975.40	1960.28	3.82	-197.10	271.11	197.14	32.81	184.06	18.39 IAS = 10.00 (m)		Pass
1970.00	1970.00	0.00	0.00	1985.38	1970.25	3.84	-197.09	271.12	197.13	32.81	184.02	18.34 IAS = 10.00 (m)		Pass
1980.00	1980.00	0.00	0.00	1995.35	1980.23	3.87	-197.08	271.13	197.12	32.81	183.98	18.29 IAS = 10.00 (m)		Pass
1990.00	1990.00	0.00	0.00	2005.32	1990.20	3.90	-197.07	271.13	197.11	32.81	183.94	18.24 IAS = 10.00 (m)		Pass
2000.00	2000.00	0.00	0.00	2015.29	2000.17	3.94	-197.06	271.14	197.10	32.81	183.90	18.19 IAS = 10.00 (m)		Pass
2010.00	2010.00	0.00	0.00	2025.27	2010.15	3.97	-197.05	271.16	197.09	32.81	183.86	18.14 IAS = 10.00 (m)		Pass
2020.00	2020.00	0.00	0.00	2035.24	2020.12	4.01	-197.04	271.17	197.08	32.81	183.83	18.10 IAS = 10.00 (m)		Pass
2030.00	2030.00	0.00	0.00	2045.21	2030.09	4.05	-197.03	271.18	197.08	32.81	183.79	18.05 IAS = 10.00 (m)		Pass
2040.00	2040.00	0.00	0.00	2055.19	2040.06	4.10	-197.03	271.19	197.07	32.81	183.76	18.00 IAS = 10.00 (m)		Pass
2050.00	2050.00	0.00	0.00	2065.16	2050.04	4.14	-197.03	271.20	197.07	32.81	183.73	17.95 IAS = 10.00 (m)		Pass
2060.00	2060.00	0.00	0.00	2075.11	2059.98	4.19	-197.02	271.22	197.07	32.81	183.69	17.89 IAS = 10.00 (m)		Pass
2070.00	2070.00	0.00	0.00	2085.05	2069.93	4.23	-197.03	271.23	197.07	32.81	183.65	17.82 IAS = 10.00 (m)		Pass
2080.00	2080.00	0.00	0.00	2094.99	2079.87	4.28	-197.03	271.24	197.08	32.81	183.61	17.75 IAS = 10.00 (m)		Pass
2090.00	2090.00	0.00	0.00	2104.93	2089.81	4.32	-197.04	271.26	197.08	32.81	183.58	17.68 IAS = 10.00 (m)		Pass
2100.00	2100.00	0.00	0.00	2114.87	2099.75	4.36	-197.05	271.27	197.10	32.81	183.55	17.61 IAS = 10.00 (m)		Pass
2110.00	2110.00	0.00	0.00	2124.81	2109.69	4.40	-197.06	271.28	197.11	32.81	183.52	17.55 IAS = 10.00 (m)		Pass
2120.00	2120.00	0.00	0.00	2134.75	2119.63	4.44	-197.08	271.29	197.13	32.81	183.49	17.48 IAS = 10.00 (m)		Pass
2130.00	2130.00	0.00	0.00	2144.69	2129.57	4.48	-197.10	271.30	197.15	32.81	183.47	17.42 IAS = 10.00 (m)		Pass
2140.00	2140.00	0.00	0.00	2154.63	2139.51	4.51	-197.12	271.31	197.17	32.81	183.45	17.35 IAS = 10.00 (m)		Pass
2150.00	2150.00	0.00	0.00	2164.57	2149.45	4.55	-197.14	271.32	197.20	32.81	183.43	17.29 IAS = 10.00 (m)		Pass
2160.00	2160.00	0.00	0.00	2174.48	2159.38	4.58	-197.17	271.33	197.23	32.81	183.41	17.20 IAS = 10.00 (m)		Pass
2170.00	2170.00	0.00	0.00	2184.40	2169.28	4.61	-197.21	271.34	197.26	32.81	183.39	17.12 IAS = 10.00 (m)		Pass
2180.00	2180.00	0.00	0.00	2194.31	2179.19	4.63	-197.25	271.34	197.30	32.81	183.37	17.04 IAS = 10.00 (m)		Pass
2190.00	2190.00	0.00	0.00	2204.23	2189.10	4.65	-197.29	271.35	197.34	32.81	183.36	16.96 IAS = 10.00 (m)		Pass
2200.00	2200.00	0.00	0.00	2214.14	2199.02	4.66	-197.33	271.35	197.39	32.81	183.35	16.88 IAS = 10.00 (m)		Pass
2210.00	2210.00	0.00	0.00	2224.06	2208.93	4.67	-197.39	271.36	197.44	32.81	183.34	16.81 IAS = 10.00 (m)		Pass
2220.00	2220.00	0.00	0.00	2233.97	2218.85	4.67	-197.44	271.36	197.50	32.81	183.35	16.73 IAS = 10.00 (m)		Pass
2230.00	2230.00	0.00	0.00	2243.89	2228.76									

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
2350.00	2350.00	0.00	0.00	2364.34	2349.22	4.26	-198.20	271.23	198.25	32.81	183.38	15.82 IAS = 10.00 (m)	Pass	
2360.00	2360.00	0.00	0.00	2374.47	2359.34	4.19	-198.24	271.21	198.28	32.81	183.37	15.77 IAS = 10.00 (m)	Pass	
2370.00	2370.00	0.00	0.00	2384.59	2369.46	4.12	-198.27	271.19	198.31	32.81	183.36	15.72 IAS = 10.00 (m)	Pass	
2380.00	2380.00	0.00	0.00	2394.71	2379.58	4.04	-198.30	271.17	198.34	32.81	183.34	15.66 IAS = 10.00 (m)	Pass	
2390.00	2390.00	0.00	0.00	2404.84	2389.71	3.96	-198.32	271.14	198.36	32.81	183.31	15.61 IAS = 10.00 (m)	Pass	
2400.00	2400.00	0.00	0.00	2414.96	2399.83	3.88	-198.33	271.12	198.37	32.81	183.28	15.56 IAS = 10.00 (m)	Pass	
2410.00	2410.00	0.00	0.00	2425.08	2409.95	3.79	-198.34	271.09	198.37	32.81	183.24	15.50 IAS = 10.00 (m)	Pass	
2420.00	2420.00	0.00	0.00	2435.21	2420.08	3.70	-198.34	271.07	198.37	32.81	183.20	15.45 IAS = 10.00 (m)	Pass	
2430.00	2430.00	0.00	0.00	2445.33	2430.20	3.60	-198.33	271.04	198.37	32.81	183.15	15.40 IAS = 10.00 (m)	Pass	
2440.00	2440.00	0.00	0.00	2455.48	2440.35	3.50	-198.32	271.01	198.35	32.81	183.10	15.36 IAS = 10.00 (m)	Pass	
2450.00	2450.00	0.00	0.00	2465.65	2450.52	3.41	-198.30	270.99	198.33	32.81	183.05	15.32 IAS = 10.00 (m)	Pass	
2460.00	2460.00	0.00	0.00	2475.82	2460.69	3.32	-198.27	270.96	198.30	32.81	182.99	15.29 IAS = 10.00 (m)	Pass	
2470.00	2470.00	0.00	0.00	2485.99	2470.85	3.23	-198.23	270.93	198.26	32.81	182.93	15.25 IAS = 10.00 (m)	Pass	
2480.00	2480.00	0.00	0.00	2496.15	2481.02	3.15	-198.19	270.91	198.21	32.81	182.85	15.22 IAS = 10.00 (m)	Pass	
2490.00	2490.00	0.00	0.00	2506.32	2491.19	3.06	-198.13	270.89	198.16	32.81	182.77	15.18 IAS = 10.00 (m)	Pass	
2500.00	2500.00	0.00	0.00	2516.49	2501.36	2.99	-198.07	270.86	198.09	32.81	182.67	15.14 IAS = 10.00 (m)	Pass	
2510.00	2510.00	0.00	0.00	2526.66	2511.53	2.91	-197.99	270.84	198.02	32.81	182.57	15.11 IAS = 10.00 (m)	Pass	
2520.00	2520.00	0.00	0.00	2536.83	2521.69	2.84	-197.92	270.82	197.94	32.81	182.46	15.07 IAS = 10.00 (m)	Pass	
2530.00	2530.00	0.00	0.00	2546.96	2531.82	2.78	-197.82	270.80	197.85	32.81	182.35	15.03 IAS = 10.00 (m)	Pass	
2540.00	2540.00	0.00	0.00	2557.01	2541.88	2.72	-197.73	270.79	197.76	32.81	182.24	15.00 IAS = 10.00 (m)	Pass	
2550.00	2550.00	0.00	0.00	2567.06	2551.93	2.66	-197.63	270.77	197.66	32.81	182.12	14.98 IAS = 10.00 (m)	Pass	
2560.00	2560.00	0.00	0.00	2577.12	2561.98	2.62	-197.53	270.76	197.56	32.81	182.01	14.95 IAS = 10.00 (m)	Pass	
2570.00	2570.00	0.00	0.00	2587.17	2572.03	2.58	-197.43	270.75	197.46	32.81	181.89	14.92 IAS = 10.00 (m)	Pass	
2580.00	2580.00	0.00	0.00	2597.22	2582.08	2.55	-197.33	270.74	197.36	32.81	181.76	14.89 IAS = 10.00 (m)	Pass	
2590.00	2590.00	0.00	0.00	2607.27	2592.14	2.53	-197.22	270.73	197.25	32.81	181.64	14.86 IAS = 10.00 (m)	Pass	
2600.00	2600.00	0.00	0.00	2617.33	2602.19	2.51	-197.11	270.73	197.14	32.81	181.51	14.83 IAS = 10.00 (m)	Pass	
2610.00	2610.00	0.00	0.00	2627.38	2612.24	2.50	-197.00	270.73	197.03	32.81	181.38	14.80 IAS = 10.00 (m)	Pass	
2620.00	2620.00	0.00	0.00	2637.43	2622.29	2.50	-196.88	270.73	196.91	32.81	181.24	14.77 IAS = 10.00 (m)	Pass	
2630.00	2630.00	0.00	0.00	2647.37	2632.23	2.51	-196.77	270.73	196.80	32.81	181.11	14.74 IAS = 10.00 (m)	Pass	
2640.00	2640.00	0.00	0.00	2657.28	2642.14	2.52	-196.66	270.73	196.69	32.81	180.98	14.71 IAS = 10.00 (m)	Pass	
2650.00	2650.00	0.00	0.00	2667.20	2652.05	2.54	-196.55	270.74	196.58	32.81	180.85	14.68 IAS = 10.00 (m)	Pass	
2660.00	2660.00	0.00	0.00	2677.11	2661.97	2.57	-196.45	270.75	196.48	32.81	180.73	14.65 IAS = 10.00 (m)	Pass	
2670.00	2670.00	0.00	0.00	2687.03	2671.88	2.61	-196.35	270.76	196.38	32.81	180.61	14.62 IAS = 10.00 (m)	Pass	
2680.00	2680.00	0.00	0.00	2696.94	2681.80	2.66	-196.26	270.78	196.28	32.81	180.49	14.59 IAS = 10.00 (m)	Pass	
2690.00	2690.00	0.00	0.00	2706.85	2691.71	2.71	-196.17	270.79	196.20	32.81	180.38	14.56 IAS = 10.00 (m)	Pass	
2700.00	2700.00	0.00	0.00	2716.77	2701.62	2.78	-196.08	270.81	196.11	32.81	180.28	14.52 IAS = 10.00 (m)	Pass	
2710.00	2710.00	0.00	0.00	2726.68	2711.54	2.85	-196.00	270.83	196.03	32.81	180.17	14.49 IAS = 10.00 (m)	Pass	
2720.00	2720.00	0.00	0.00	2736.59	2721.44	2.93	-195.93	270.86	195.95	32.81	180.07	14.46 IAS = 10.00 (m)	Pass	
2730.00	2730.00	0.00	0.00	2746.48	2731.33	3.01	-195.86	270.88	195.88	32.81	179.97	14.42 IAS = 10.00 (m)	Pass	
2740.00	2740.00	0.00	0.00	2756.37	2741.22	3.09	-195.79	270.90	195.82	32.81	179.88	14.39 IAS = 10.00 (m)	Pass	
2750.00	2750.00	0.00	0.00	2766.26	2751.11	3.18	-195.73	270.93	195.76	32.81	179.79	14.35 IAS = 10.00 (m)	Pass	
2760.00	2760.00	0.00	0.00	2776.15	2761.00	3.26	-195.67	270.95	195.70	32.81	179.70	14.31 IAS = 10.00 (m)	Pass	
2770.00	2770.00	0.00	0.00	2786.04	2770.89	3.35	-195.63	270.98	195.66	32.81	179.63	14.28 IAS = 10.00 (m)	Pass	
2780.00	2780.00	0.00	0.00	2795.92	2780.78	3.44	-195.58	271.01	195.61	32.81	179.55	14.24 IAS = 10.00 (m)	Pass	
2790.00	2790.00	0.00	0.00	2805.81	2790.66	3.53	-195.54	271.03	195.58	32.81	179.49	14.21 IAS = 10.00 (m)	Pass	
2800.00	2800.00	0.00	0.00	2815.70	2800.55	3.62	-195.51	271.06	195.55	32.81	179.42	14.17 IAS = 10.00 (m)	Pass	
2810.00	2810.00	0.00	0.00	2825.59	2810.44	3.71	-195.48	271.09	195.52	32.81	179.37	14.14 IAS = 10.00 (m)	Pass	
2820.00	2820.00	0.00	0.00	2835.50	2820.35	3.81	-195.46	271.12	195.50	32.81	179.31	14.10 IAS = 10.00 (m)	Pass	
2830.00	2830.00	0.00	0.00	2845.41	2830.26	3.90	-195.45	271.14	195.49	32.81	179.25	14.06 IAS = 10.00 (m)	Pass	
2840.00	2840.00	0.00	0.00	2855.32	2840.17	3.99	-195.43	271.17	195.47	32.81	179.20	14.01 IAS = 10.00 (m)	Pass	
2850.00	2850.00	0.00	0.00	2865.24	2850.08	4.08	-195.43	271.20	195.47	32.81	179.16	13.97 IAS = 10.00 (m)	Pass	
2860.00	2860.00	0.00	0.00	2875.15	2860.00	4.17	-195.42	271.22	195.47	32.81	179.11	13.93 IAS = 10.00 (m)	Pass	
2870.00	2870.00	0.00	0.00	2885.06	2869.91	4.25	-195.42	271.25	195.47	32.81	179.07	13.89 IAS = 10.00 (m)	Pass	
2880.00	2880.00	0.00	0.00	2894.97	2879.82	4.34	-195.43	271.27	195.48	32.81	179.04	13.85 IAS = 10.00 (m)	Pass	
2890.00	2890.00	0.00	0.00	2904.89	2889.73	4.42	-195.44	271.30	195.49	32.81	179.01	13.81 IAS = 10.00 (m)	Pass	
2900.00	2900.00	0.00	0.00	2914.80	2899.65	4.50	-195.45	271.32	195.50	32.81	178.99	13.77 IAS = 10.00 (m)	Pass	
2910.00	2910.00	0.00	0.00	2924.71	2909.56	4.58	-195.47	271.34	195.52	32.81	178.96	13.73 IAS = 10.00 (m)	Pass	
2920.00	2920.00	0.00	0.00	2934.68	2919.53	4.66	-195.49	271.36	195.55	32.81	178.94	13.68 IAS = 10.00 (m)	Pass	
2930.00	2930.00	0.00	0.00	2944.66	2929.50	4.73	-195.51	271.38	195.57	32.81	178.91	13.63 IAS = 10.00 (m)	Pass	
2940.00	2940.00	0.00	0.00	2954.63	2939.47	4.79	-195.54	271.40	195.60	32.81	178.88	13.59 IAS = 10.00 (m)	Pass	
2950.00	2950.00	0.00	0.00	2964.60	2949.45	4.85	-195.56	271.42	195.62	32.81	178.86	13.54 IAS = 10.00 (m)	Pass	
2960.00	2960.00	0.00	0.00	2974.58	2959.42	4.90	-195.59	271.43	195.65	32.81	178.84	13.49 IAS = 10.00 (m)	Pass	
2970.00	2970.00	0.00	0.00	2984.55	2969.39	4.94	-195.62	271.45	195.68	32.81	178.81	13.44 IAS = 10.00 (m)	Pass	
2980.00	2980.00	0.00	0.00	2994.52	2979.37	4.98	-195.65	271.46	195.72	32.81	178.79	13.40 IAS = 10.00 (m)	Pass	
2990.00	2990.00	0.00	0.00	3004.50	2989.34	5.01	-195.68	271.47	195.75	32.81	178.78	13.35 IAS = 10.00 (m)	Pass	
3000.00	3000.00	0.00	0.00	3014.47	2999.31	5.04	-195.72	271.47	195.78	32.81	178.76	13.31 IAS = 10.00 (m)	Pass	
3010.00	3010.00	0.00	0.00	3024.50	3009.34	5.06	-195.75	271.48	195.82	32.81	178.74	13.26 IAS = 10.00 (m)	Pass	
3020.00	3020.00	0.00	0.00	3034.60	3019.44	5.07	-195.78	271.48	195.85	32.81	178.73	13.22 IAS = 10.00 (m)	Pass	
3030.00	3030.00	0.00	0.00	3044.70	3029.55	5.08	-195.81	271.49	195.88	32.81	178.71	13.18 IAS = 10.00 (m)	Pass	
3040.00	3040.00	0.00	0.00	3054.80	3039.65	5.08	-195.83	271.48	195.90	32.81	178.68	13.14 IAS = 10.00 (m)	Pass	
3050.00	3050.00	0.00	0.00	3064.91	3049.75	5.07	-195.85	271.48	195.91	32.81	178.65	13.10 IAS = 10.00 (m)	Pass	
3060.00	3060.00	0.00	0.00	3075.01	3059.85	5.06	-195.86	271.48	195.92	32.81	178.61	13.06 IAS = 10.00 (m)	Pass	
3070.00	3070.00	0.00	0.00	3085.11	3069.95	5.04	-195.86	271.47	195.93	32.81	178.57	13.02 IAS = 10.00 (m)	Pass	
3080.00	3080.00	0.00	0.00	3095.21	3080.05	5.02	-							

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
3200.00	3200.00	0.00	0.00	3215.65	3200.49	4.62	-195.66	271.35	195.72	32.81	177.91	12.62 IAS = 10.00 (m)		Pass
3210.00	3210.00	0.00	0.00	3225.65	3210.49	4.60	-195.64	271.35	195.69	32.81	177.85	12.60 IAS = 10.00 (m)		Pass
3220.00	3220.00	0.00	0.00	3235.65	3220.49	4.59	-195.61	271.34	195.67	32.81	177.80	12.57 IAS = 10.00 (m)		Pass
3230.00	3230.00	0.00	0.00	3245.65	3230.49	4.58	-195.59	271.34	195.64	32.81	177.75	12.55 IAS = 10.00 (m)		Pass
3240.00	3240.00	0.00	0.00	3255.65	3240.49	4.58	-195.56	271.34	195.62	32.81	177.70	12.52 IAS = 10.00 (m)		Pass
3250.00	3250.00	0.00	0.00	3265.65	3250.49	4.58	-195.54	271.34	195.59	32.81	177.64	12.50 IAS = 10.00 (m)		Pass
3260.00	3260.00	0.00	0.00	3275.65	3260.49	4.59	-195.51	271.34	195.57	32.81	177.59	12.47 IAS = 10.00 (m)		Pass
3270.00	3270.00	0.00	0.00	3285.65	3270.49	4.60	-195.49	271.35	195.54	32.81	177.54	12.45 IAS = 10.00 (m)		Pass
3280.00	3280.00	0.00	0.00	3295.65	3280.49	4.62	-195.46	271.35	195.52	32.81	177.48	12.43 IAS = 10.00 (m)		Pass
3290.00	3290.00	0.00	0.00	3305.65	3290.49	4.64	-195.44	271.36	195.49	32.81	177.43	12.40 IAS = 10.00 (m)		Pass
3300.00	3300.00	0.00	0.00	3315.53	3300.37	4.67	-195.41	271.37	195.47	32.81	177.36	12.37 IAS = 10.00 (m)		Pass
3310.00	3310.00	0.00	0.00	3325.41	3310.25	4.69	-195.40	271.37	195.45	32.81	177.31	12.33 IAS = 10.00 (m)		Pass
3320.00	3320.00	0.00	0.00	3335.28	3320.12	4.71	-195.39	271.38	195.45	32.81	177.25	12.30 IAS = 10.00 (m)		Pass
3330.00	3330.00	0.00	0.00	3345.16	3330.00	4.73	-195.38	271.39	195.44	32.81	177.21	12.26 IAS = 10.00 (m)		Pass
3340.00	3340.00	0.00	0.00	3355.04	3339.88	4.75	-195.39	271.39	195.45	32.81	177.17	12.23 IAS = 10.00 (m)		Pass
3350.00	3350.00	0.00	0.00	3364.91	3349.76	4.76	-195.40	271.40	195.45	32.81	177.14	12.20 IAS = 10.00 (m)		Pass
3360.00	3360.00	0.00	0.00	3374.79	3359.63	4.78	-195.41	271.40	195.47	32.81	177.11	12.17 IAS = 10.00 (m)		Pass
3370.00	3370.00	0.00	0.00	3384.67	3369.51	4.79	-195.43	271.40	195.49	32.81	177.09	12.13 IAS = 10.00 (m)		Pass
3380.00	3380.00	0.00	0.00	3394.55	3379.39	4.80	-195.46	271.41	195.52	32.81	177.07	12.10 IAS = 10.00 (m)		Pass
3390.00	3390.00	0.00	0.00	3404.50	3389.34	4.81	-195.49	271.41	195.55	32.81	177.06	12.07 IAS = 10.00 (m)		Pass
3400.00	3400.00	0.00	0.00	3414.64	3399.48	4.81	-195.52	271.41	195.58	32.81	177.05	12.04 IAS = 10.00 (m)		Pass
3410.00	3410.00	0.00	0.00	3424.78	3409.62	4.81	-195.55	271.41	195.61	32.81	177.02	12.01 IAS = 10.00 (m)		Pass
3420.00	3420.00	0.00	0.00	3434.92	3419.76	4.79	-195.56	271.40	195.62	32.81	176.99	11.97 IAS = 10.00 (m)		Pass
3430.00	3430.00	0.00	0.00	3445.06	3429.90	4.77	-195.57	271.40	195.63	32.81	176.95	11.94 IAS = 10.00 (m)		Pass
3440.00	3440.00	0.00	0.00	3455.20	3440.04	4.73	-195.58	271.39	195.63	32.81	176.91	11.90 IAS = 10.00 (m)		Pass
3450.00	3450.00	0.00	0.00	3465.34	3450.18	4.69	-195.57	271.37	195.63	32.81	176.86	11.87 IAS = 10.00 (m)		Pass
3460.00	3460.00	0.00	0.00	3475.48	3460.32	4.64	-195.56	271.36	195.61	32.81	176.80	11.84 IAS = 10.00 (m)		Pass
3470.00	3470.00	0.00	0.00	3485.62	3470.46	4.58	-195.54	271.34	195.59	32.81	176.73	11.80 IAS = 10.00 (m)		Pass
3480.00	3480.00	0.00	0.00	3495.76	3480.60	4.52	-195.51	271.32	195.57	32.81	176.66	11.77 IAS = 10.00 (m)		Pass
3490.00	3490.00	0.00	0.00	3505.72	3490.57	4.45	-195.49	271.30	195.54	32.81	176.59	11.74 IAS = 10.00 (m)		Pass
3500.00	3500.00	0.00	0.00	3515.69	3500.53	4.41	-195.46	271.29	195.51	32.81	176.52	11.71 IAS = 10.00 (m)		Pass
3510.00	3510.00	0.00	0.00	3525.65	3510.49	4.38	-195.43	271.28	195.48	32.81	176.46	11.68 IAS = 10.00 (m)		Pass
3520.00	3520.00	0.00	0.00	3535.61	3520.45	4.36	-195.41	271.28	195.46	32.81	176.40	11.65 IAS = 10.00 (m)		Pass
3530.00	3530.00	0.00	0.00	3545.57	3530.41	4.37	-195.39	271.28	195.44	32.81	176.34	11.63 IAS = 10.00 (m)		Pass
3540.00	3540.00	0.00	0.00	3555.53	3540.37	4.38	-195.37	271.29	195.42	32.81	176.28	11.60 IAS = 10.00 (m)		Pass
3550.00	3550.00	0.00	0.00	3565.49	3550.33	4.42	-195.35	271.30	195.40	32.81	176.23	11.57 IAS = 10.00 (m)		Pass
3560.00	3560.00	0.00	0.00	3575.45	3560.29	4.47	-195.33	271.31	195.38	32.81	176.18	11.55 IAS = 10.00 (m)		Pass
3570.00	3570.00	0.00	0.00	3585.41	3570.25	4.54	-195.32	271.33	195.37	32.81	176.12	11.52 IAS = 10.00 (m)		Pass
3580.00	3580.00	0.00	0.00	3595.34	3580.18	4.62	-195.30	271.36	195.36	32.81	176.07	11.49 IAS = 10.00 (m)		Pass
3590.00	3590.00	0.00	0.00	3605.24	3590.08	4.70	-195.30	271.38	195.35	32.81	176.02	11.46 IAS = 10.00 (m)		Pass
3600.00	3600.00	0.00	0.00	3615.14	3599.98	4.76	-195.29	271.40	195.35	32.81	175.97	11.42 IAS = 10.00 (m)		Pass
3610.00	3610.00	0.00	0.00	3625.04	3609.88	4.82	-195.29	271.41	195.35	32.81	175.92	11.39 IAS = 10.00 (m)		Pass
3620.00	3620.00	0.00	0.00	3634.94	3619.78	4.87	-195.30	271.43	195.36	32.81	175.89	11.36 IAS = 10.00 (m)		Pass
3630.00	3630.00	0.00	0.00	3644.84	3629.68	4.90	-195.31	271.44	195.38	32.81	175.85	11.33 IAS = 10.00 (m)		Pass
3640.00	3640.00	0.00	0.00	3654.73	3639.57	4.93	-195.33	271.45	195.40	32.81	175.82	11.30 IAS = 10.00 (m)		Pass
3650.00	3650.00	0.00	0.00	3664.63	3649.47	4.94	-195.36	271.45	195.42	32.81	175.80	11.27 IAS = 10.00 (m)		Pass
3660.00	3660.00	0.00	0.00	3674.53	3659.37	4.95	-195.39	271.45	195.45	32.81	175.78	11.24 IAS = 10.00 (m)		Pass
3670.00	3670.00	0.00	0.00	3684.43	3669.27	4.95	-195.42	271.45	195.48	32.81	175.77	11.21 IAS = 10.00 (m)		Pass
3680.00	3680.00	0.00	0.00	3694.49	3679.33	4.93	-195.46	271.45	195.52	32.81	175.76	11.18 IAS = 10.00 (m)		Pass
3690.00	3690.00	0.00	0.00	3704.59	3689.43	4.91	-195.49	271.44	195.55	32.81	175.74	11.15 IAS = 10.00 (m)		Pass
3700.00	3700.00	0.00	0.00	3714.69	3699.52	4.87	-195.52	271.43	195.58	32.81	175.72	11.12 IAS = 10.00 (m)		Pass
3710.00	3710.00	0.00	0.00	3724.78	3709.62	4.83	-195.54	271.42	195.60	32.81	175.69	11.09 IAS = 10.00 (m)		Pass
3720.00	3720.00	0.00	0.00	3734.88	3719.72	4.78	-195.56	271.40	195.62	32.81	175.66	11.06 IAS = 10.00 (m)		Pass
3730.00	3730.00	0.00	0.00	3744.98	3729.81	4.72	-195.57	271.38	195.63	32.81	175.62	11.03 IAS = 10.00 (m)		Pass
3740.00	3740.00	0.00	0.00	3755.07	3739.91	4.64	-195.58	271.36	195.64	32.81	175.58	11.00 IAS = 10.00 (m)		Pass
3750.00	3750.00	0.00	0.00	3765.17	3750.01	4.56	-195.59	271.34	195.64	32.81	175.53	10.97 IAS = 10.00 (m)		Pass
3760.00	3760.00	0.00	0.00	3775.27	3760.10	4.47	-195.59	271.31	195.64	32.81	175.48	10.94 IAS = 10.00 (m)		Pass
3770.00	3770.00	0.00	0.00	3785.39	3770.23	4.37	-195.58	271.28	195.63	32.81	175.43	10.91 IAS = 10.00 (m)		Pass
3780.00	3780.00	0.00	0.00	3795.56	3780.40	4.28	-195.57	271.25	195.61	32.81	175.38	10.89 IAS = 10.00 (m)		Pass
3790.00	3790.00	0.00	0.00	3805.74	3790.57	4.20	-195.54	271.23	195.59	32.81	175.32	10.87 IAS = 10.00 (m)		Pass
3800.00	3800.00	0.00	0.00	3815.91	3800.74	4.13	-195.51	271.21	195.55	32.81	175.25	10.85 IAS = 10.00 (m)		Pass
3810.00	3810.00	0.00	0.00	3826.08	3810.92	4.08	-195.47	271.20	195.51	32.81	175.17	10.82 IAS = 10.00 (m)		Pass
3820.00	3820.00	0.00	0.00	3836.25	3821.09	4.04	-195.42	271.18	195.46	32.81	175.09	10.80 IAS = 10.00 (m)		Pass
3830.00	3830.00	0.00	0.00	3846.43	3831.26	4.01	-195.36	271.17	195.40	32.81	174.99	10.77 IAS = 10.00 (m)		Pass
3840.00	3840.00	0.00	0.00	3856.60	3841.43	3.99	-195.29	271.17	195.33	32.81	174.89	10.75 IAS = 10.00 (m)		Pass
3850.00	3850.00	0.00	0.00	3866.77	3851.60	3.98	-195.21	271.17	195.25	32.81	174.77	10.73 IAS = 10.00 (m)		Pass
3860.00	3860.00	0.00	0.00	3876.94	3861.78	3.99	-195.12	271.17	195.17	32.81	174.65	10.70 IAS = 10.00 (m)		Pass
3870.00	3870.00	0.00	0.00	3886.67	3871.50	4.00	-195.04	271.18	195.08	32.81	174.53	10.67 IAS = 10.00 (m)		Pass
3880.00	3880.00	0.00	0.00	3896.39	3881.22	4.02	-194.97	271.18	195.01	32.81	174.42	10.64 IAS = 10.00 (m)		Pass
3890.00	3890.00	0.00	0.00	3906.10	3890.93	4.04	-194.91	271.19	194.96	32.81	174.33	10.62 IAS = 10.00 (m)		Pass
3900.00	3900.00	0.00	0.00	3915.82	3900.65	4.06	-194.87	271.19	194.92	32.81	174.25	10.59 IAS = 10.00 (m)		Pass
3910.00	3910.00	0.00	0.00	3925.53	3910.37	4.09	-194.85	271.20	194.89	32.81	174.19	10.57 IAS = 10.00 (m)		Pass
3920.00	3920.00	0.00	0.00	3935.25	3920.08	4.11	-194.84	271.21	194.88	32.81	174.14	10.55 IAS = 10.00 (m)		Pass
3930.00	3930.00	0.00	0.00	3944.97	3929.80	4.14	-							

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
4050.00	4050.00	0.00	0.00	4054.33	4049.15	3.83	-195.36	271.12	195.40	32.81	174.05	10.23 IAS = 10.00 (m)		Pass
4060.00	4060.00	0.00	0.00	4074.45	4059.28	3.69	-195.41	271.08	195.44	32.81	174.05	10.21 IAS = 10.00 (m)		Pass
4070.00	4070.00	0.00	0.00	4084.65	4069.48	3.56	-195.44	271.04	195.48	32.81	174.04	10.19 IAS = 10.00 (m)		Pass
4080.00	4080.00	0.00	0.00	4094.85	4079.67	3.42	-195.47	271.00	195.50	32.81	174.02	10.17 IAS = 10.00 (m)		Pass
4090.00	4090.00	0.00	0.00	4105.04	4089.87	3.30	-195.48	270.97	195.51	32.81	173.99	10.15 IAS = 10.00 (m)		Pass
4100.00	4100.00	0.00	0.00	4115.24	4100.06	3.17	-195.49	270.93	195.51	32.81	173.95	10.13 IAS = 10.00 (m)		Pass
4110.00	4110.00	0.00	0.00	4125.44	4110.26	3.05	-195.48	270.89	195.50	32.81	173.90	10.10 IAS = 10.00 (m)		Pass
4120.00	4120.00	0.00	0.00	4135.63	4120.46	2.93	-195.46	270.86	195.48	32.81	173.84	10.08 IAS = 10.00 (m)		Pass
4130.00	4130.00	0.00	0.00	4145.83	4130.65	2.82	-195.44	270.83	195.46	32.81	173.77	10.06 IAS = 10.00 (m)		Pass
4140.00	4140.00	0.00	0.00	4156.03	4140.85	2.71	-195.40	270.80	195.42	32.81	173.69	10.03 IAS = 10.00 (m)		Pass
4150.00	4150.00	0.00	0.00	4166.17	4150.99	2.61	-195.35	270.77	195.37	32.81	173.60	10.01 IAS = 10.00 (m)		Pass
4160.00	4160.00	0.00	0.00	4176.14	4160.96	2.52	-195.30	270.74	195.32	32.81	173.52	9.99 IAS = 10.00 (m)		Pass
4170.00	4170.00	0.00	0.00	4186.11	4170.93	2.43	-195.25	270.71	195.27	32.81	173.44	9.97 IAS = 10.00 (m)		Pass
4180.00	4180.00	0.00	0.00	4196.07	4180.89	2.36	-195.21	270.69	195.23	32.81	173.36	9.95 IAS = 10.00 (m)		Pass
4190.00	4190.00	0.00	0.00	4206.04	4190.86	2.30	-195.17	270.68	195.18	32.81	173.28	9.94 IAS = 10.00 (m)		Pass
4200.00	4200.00	0.00	0.00	4216.01	4200.83	2.25	-195.12	270.66	195.14	32.81	173.21	9.92 IAS = 10.00 (m)		Pass
4210.00	4210.00	0.00	0.00	4225.98	4210.80	2.22	-195.08	270.65	195.10	32.81	173.13	9.90 IAS = 10.00 (m)		Pass
4220.00	4220.00	0.00	0.00	4235.95	4220.77	2.19	-195.04	270.64	195.05	32.81	173.06	9.88 IAS = 10.00 (m)		Pass
4230.00	4230.00	0.00	0.00	4245.92	4230.74	2.18	-195.00	270.64	195.02	32.81	172.99	9.86 IAS = 10.00 (m)		Pass
4240.00	4240.00	0.00	0.00	4255.89	4240.71	2.17	-194.97	270.64	194.98	32.81	172.92	9.84 IAS = 10.00 (m)		Pass
4250.00	4250.00	0.00	0.00	4265.87	4250.69	2.18	-194.93	270.64	194.94	32.81	172.85	9.83 IAS = 10.00 (m)		Pass
4260.00	4260.00	0.00	0.00	4275.85	4260.67	2.18	-194.89	270.64	194.91	32.81	172.79	9.81 IAS = 10.00 (m)		Pass
4270.00	4270.00	0.00	0.00	4285.83	4270.65	2.19	-194.86	270.64	194.87	32.81	172.72	9.79 IAS = 10.00 (m)		Pass
4280.00	4280.00	0.00	0.00	4295.81	4280.63	2.19	-194.83	270.64	194.84	32.81	172.66	9.78 IAS = 10.00 (m)		Pass
4290.00	4290.00	0.00	0.00	4305.79	4290.61	2.19	-194.80	270.65	194.81	32.81	172.60	9.76 IAS = 10.00 (m)		Pass
4300.00	4300.00	0.00	0.00	4315.77	4300.59	2.20	-194.77	270.65	194.78	32.81	172.54	9.74 IAS = 10.00 (m)		Pass
4310.00	4310.00	0.00	0.00	4325.75	4310.57	2.20	-194.74	270.65	194.75	32.81	172.48	9.73 IAS = 10.00 (m)		Pass
4320.00	4320.00	0.00	0.00	4335.73	4320.55	2.20	-194.71	270.65	194.72	32.81	172.42	9.71 IAS = 10.00 (m)		Pass
4330.00	4330.00	0.00	0.00	4345.71	4330.53	2.20	-194.68	270.65	194.69	32.81	172.36	9.69 IAS = 10.00 (m)		Pass
4340.00	4340.00	0.00	0.00	4355.69	4340.51	2.20	-194.65	270.65	194.67	32.81	172.30	9.68 IAS = 10.00 (m)		Pass
4350.00	4350.00	0.00	0.00	4365.67	4350.49	2.20	-194.63	270.65	194.64	32.81	172.24	9.66 IAS = 10.00 (m)		Pass
4360.00	4360.00	0.00	0.00	4375.66	4360.47	2.21	-194.60	270.65	194.62	32.81	172.18	9.64 IAS = 10.00 (m)		Pass
4370.00	4370.00	0.00	0.00	4385.64	4370.46	2.22	-194.58	270.66	194.59	32.81	172.12	9.62 IAS = 10.00 (m)		Pass
4380.00	4380.00	0.00	0.00	4395.62	4380.44	2.25	-194.56	270.66	194.57	32.81	172.06	9.60 IAS = 10.00 (m)		Pass
4390.00	4390.00	0.00	0.00	4405.61	4390.43	2.28	-194.53	270.67	194.55	32.81	172.00	9.58 IAS = 10.00 (m)		Pass
4400.00	4400.00	0.00	0.00	4415.59	4400.41	2.32	-194.51	270.68	194.53	32.81	171.95	9.56 IAS = 10.00 (m)		Pass
4410.00	4410.00	0.00	0.00	4425.57	4410.39	2.36	-194.49	270.70	194.50	32.81	171.89	9.55 IAS = 10.00 (m)		Pass
4420.00	4420.00	0.00	0.00	4435.56	4420.38	2.41	-194.47	270.71	194.48	32.81	171.83	9.53 IAS = 10.00 (m)		Pass
4430.00	4430.00	0.00	0.00	4445.54	4430.36	2.47	-194.45	270.73	194.47	32.81	171.78	9.51 IAS = 10.00 (m)		Pass
4440.00	4440.00	0.00	0.00	4455.45	4440.28	2.53	-194.43	270.75	194.45	32.84	171.72	9.49 OSF 1.50		Pass
4450.00	4450.00	0.00	0.00	4465.31	4450.13	2.59	-194.42	270.76	194.44	32.91	171.66	9.47 OSF 1.50		Pass
4460.00	4460.00	0.00	0.00	4475.17	4459.99	2.64	-194.42	270.78	194.44	32.98	171.62	9.45 OSF 1.50		Pass
4470.00	4470.00	0.00	0.00	4485.03	4469.85	2.69	-194.42	270.79	194.44	33.05	171.57	9.42 OSF 1.50		Pass
4480.00	4480.00	0.00	0.00	4494.90	4479.71	2.73	-194.43	270.80	194.45	33.12	171.54	9.40 OSF 1.50		Pass
4490.00	4490.00	0.00	0.00	4504.76	4489.58	2.76	-194.45	270.81	194.47	33.19	171.51	9.38 OSF 1.50		Pass
4500.00	4500.00	0.00	0.00	4514.62	4499.44	2.80	-194.47	270.82	194.50	33.26	171.49	9.36 OSF 1.50		Pass
4510.00	4510.00	0.00	0.00	4524.48	4509.30	2.82	-194.51	270.83	194.53	33.33	171.47	9.34 OSF 1.50		Pass
4520.00	4520.00	0.00	0.00	4534.35	4519.16	2.85	-194.54	270.84	194.57	33.40	171.47	9.32 OSF 1.50		Pass
4530.00	4530.00	0.00	0.00	4544.21	4529.03	2.86	-194.59	270.84	194.61	33.47	171.47	9.31 OSF 1.50		Pass
4540.00	4540.00	0.00	0.00	4554.24	4539.06	2.88	-194.64	270.85	194.66	33.55	171.46	9.28 OSF 1.50		Pass
4550.00	4550.00	0.00	0.00	4564.28	4549.10	2.89	-194.69	270.85	194.71	33.63	171.46	9.26 OSF 1.50		Pass
4560.00	4560.00	0.00	0.00	4574.32	4559.14	2.89	-194.73	270.85	194.76	33.71	171.45	9.24 OSF 1.50		Pass
4570.00	4570.00	0.00	0.00	4584.36	4569.18	2.90	-194.78	270.85	194.80	33.79	171.44	9.22 OSF 1.50		Pass
4580.00	4580.00	0.00	0.00	4594.40	4579.22	2.90	-194.82	270.85	194.84	33.87	171.43	9.20 OSF 1.50		Pass
4590.00	4590.00	0.00	0.00	4604.44	4589.25	2.89	-194.86	270.85	194.88	33.95	171.41	9.18 OSF 1.50		Pass
4600.00	4600.00	0.00	0.00	4614.48	4599.29	2.88	-194.89	270.85	194.92	34.03	171.40	9.15 OSF 1.50		Pass
4610.00	4610.00	0.00	0.00	4624.52	4609.33	2.87	-194.93	270.84	194.95	34.11	171.38	9.13 OSF 1.50		Pass
4620.00	4620.00	0.00	0.00	4634.56	4619.37	2.86	-194.96	270.84	194.99	34.19	171.36	9.11 OSF 1.50		Pass
4630.00	4630.00	0.00	0.00	4644.61	4629.43	2.84	-194.99	270.83	195.02	34.27	171.34	9.09 OSF 1.50		Pass
4640.00	4640.00	0.00	0.00	4654.68	4639.49	2.82	-195.02	270.83	195.04	34.34	171.32	9.07 OSF 1.50		Pass
4650.00	4650.00	0.00	0.00	4664.75	4649.56	2.79	-195.05	270.82	195.07	34.41	171.29	9.05 OSF 1.50		Pass
4660.00	4660.00	0.00	0.00	4674.82	4659.63	2.77	-195.07	270.81	195.09	34.48	171.27	9.03 OSF 1.50		Pass
4670.00	4670.00	0.00	0.00	4684.88	4669.70	2.75	-195.09	270.81	195.11	34.55	171.24	9.01 OSF 1.50		Pass
4680.00	4680.00	0.00	0.00	4694.95	4679.77	2.72	-195.10	270.80	195.12	34.63	171.20	8.99 OSF 1.50		Pass
4690.00	4690.00	0.00	0.00	4705.02	4689.84	2.69	-195.11	270.79	195.13	34.70	171.17	8.97 OSF 1.50		Pass
4700.00	4700.00	0.00	0.00	4715.09	4699.91	2.67	-195.12	270.78	195.14	34.77	171.12	8.95 OSF 1.50		Pass
4710.00	4710.00	0.00	0.00	4725.16	4709.98	2.64	-195.12	270.77	195.14	34.84	171.08	8.94 OSF 1.50		Pass
4720.00	4720.00	0.00	0.00	4735.23	4720.04	2.61	-195.12	270.77	195.14	34.91	171.03	8.92 OSF 1.50		Pass
4730.00	4730.00	0.00	0.00	4745.26	4730.07	2.58	-195.12	270.76	195.14	34.97	170.99	8.90 OSF 1.50		Pass
4740.00	4740.00	0.00	0.00	4755.29	4740.10	2.55	-195.11	270.75	195.13	35.02	170.95	8.89 OSF 1.50		Pass
4750.00	4750.00	0.00	0.00	4765.32	4750.13	2.52	-195.11	270.74	195.13	35.08	170.91	8.87 OSF 1.50		Pass
4760.00	4760.00	0.00	0.00	4775.34	4760.16	2.50	-195.10	270.73	195.12	35.13	170.86	8.85 OSF 1.50		Pass
4770.00	4770.00	0.00	0.00	4785.37	4770.19	2.48	-195.09	270.73	195.11	35.19	170.82	8.84 OSF 1.50		Pass
4780.00	4780.00	0.00	0.00	4795.40	4780.22	2.46	-195.08	270.72	195.10	35.24	170.77	8.82 OSF 1.50		Pass
4790.00	4790.00	0.00	0.00	4805.43	4790.25	2.45	-195.07	270.72	195.09	35.				

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
4900.00	4900.00	0.00	0.00	4914.84	4899.66	2.44	-195.04	270.72	195.05	35.96	170.25	8.63	OSF 1.50	Pass
4910.00	4910.00	0.00	0.00	4924.77	4909.58	2.45	-195.06	270.72	195.07	36.03	170.22	8.62	OSF 1.50	Pass
4920.00	4920.00	0.00	0.00	4934.83	4919.64	2.46	-195.08	270.72	195.09	36.09	170.20	8.60	OSF 1.50	Pass
4930.00	4930.00	0.00	0.00	4944.91	4929.72	2.47	-195.09	270.72	195.11	36.16	170.17	8.58	OSF 1.50	Pass
4940.00	4940.00	0.00	0.00	4954.99	4939.80	2.48	-195.11	270.73	195.12	36.22	170.14	8.57	OSF 1.50	Pass
4950.00	4950.00	0.00	0.00	4965.07	4949.88	2.49	-195.12	270.73	195.13	36.28	170.11	8.55	OSF 1.50	Pass
4960.00	4960.00	0.00	0.00	4975.15	4959.96	2.50	-195.12	270.74	195.13	36.35	170.07	8.54	OSF 1.50	Pass
4970.00	4970.00	0.00	0.00	4985.23	4970.04	2.52	-195.12	270.74	195.13	36.41	170.03	8.52	OSF 1.50	Pass
4980.00	4980.00	0.00	0.00	4995.31	4980.12	2.53	-195.11	270.74	195.13	36.48	169.98	8.50	OSF 1.50	Pass
4990.00	4990.00	0.00	0.00	5005.39	4990.20	2.54	-195.11	270.75	195.12	36.55	169.92	8.49	OSF 1.50	Pass
5000.00	5000.00	0.00	0.00	5015.47	5000.28	2.55	-195.09	270.75	195.11	36.61	169.87	8.47	OSF 1.50	Pass
5010.00	5010.00	0.00	0.00	5025.49	5010.31	2.56	-195.08	270.75	195.09	36.68	169.81	8.45	OSF 1.50	Pass
5020.00	5020.00	0.00	0.00	5035.44	5020.26	2.57	-195.06	270.76	195.08	36.74	169.75	8.44	OSF 1.50	Pass
5030.00	5030.00	0.00	0.00	5045.40	5030.21	2.58	-195.05	270.76	195.07	36.80	169.70	8.42	OSF 1.50	Pass
5040.00	5040.00	0.00	0.00	5055.35	5040.16	2.59	-195.04	270.76	195.06	36.87	169.65	8.41	OSF 1.50	Pass
5050.00	5050.00	0.00	0.00	5065.30	5050.12	2.59	-195.03	270.76	195.05	36.93	169.60	8.39	OSF 1.50	Pass
5060.00	5060.00	0.00	0.00	5075.25	5060.07	2.59	-195.03	270.76	195.05	36.99	169.55	8.37	OSF 1.50	Pass
5070.00	5070.00	0.00	0.00	5085.21	5070.02	2.59	-195.03	270.76	195.04	37.06	169.51	8.36	OSF 1.50	Pass
5080.00	5080.00	0.00	0.00	5095.16	5079.97	2.59	-195.03	270.76	195.04	37.12	169.46	8.34	OSF 1.50	Pass
5090.00	5090.00	0.00	0.00	5105.11	5089.93	2.59	-195.03	270.76	195.05	37.18	169.42	8.33	OSF 1.50	Pass
5100.00	5100.00	0.00	0.00	5115.06	5099.88	2.58	-195.03	270.76	195.05	37.25	169.39	8.31	OSF 1.50	Pass
5110.00	5110.00	0.00	0.00	5125.06	5109.88	2.57	-195.04	270.75	195.06	37.32	169.35	8.30	OSF 1.50	Pass
5120.00	5120.00	0.00	0.00	5135.06	5119.88	2.55	-195.05	270.75	195.06	37.39	169.30	8.28	OSF 1.50	Pass
5130.00	5130.00	0.00	0.00	5145.07	5129.88	2.54	-195.05	270.74	195.07	37.46	169.26	8.26	OSF 1.50	Pass
5140.00	5140.00	0.00	0.00	5155.07	5139.88	2.51	-195.06	270.74	195.08	37.53	169.22	8.25	OSF 1.50	Pass
5150.00	5150.00	0.00	0.00	5165.07	5149.88	2.48	-195.07	270.73	195.08	37.61	169.18	8.23	OSF 1.50	Pass
5160.00	5160.00	0.00	0.00	5175.07	5159.89	2.45	-195.07	270.72	195.09	37.68	169.14	8.21	OSF 1.50	Pass
5170.00	5170.00	0.00	0.00	5185.07	5169.89	2.42	-195.08	270.71	195.09	37.75	169.09	8.20	OSF 1.50	Pass
5180.00	5180.00	0.00	0.00	5195.08	5179.89	2.38	-195.08	270.70	195.10	37.82	169.05	8.18	OSF 1.50	Pass
5190.00	5190.00	0.00	0.00	5205.08	5189.89	2.33	-195.09	270.68	195.11	37.89	169.01	8.16	OSF 1.50	Pass
5200.00	5200.00	0.00	0.00	5215.07	5199.89	2.28	-195.10	270.67	195.11	37.97	168.97	8.15	OSF 1.50	Pass
5210.00	5210.00	0.00	0.00	5225.05	5209.87	2.23	-195.10	270.65	195.12	38.04	168.93	8.13	OSF 1.50	Pass
5220.00	5220.00	0.00	0.00	5235.04	5219.85	2.18	-195.11	270.64	195.12	38.11	168.89	8.11	OSF 1.50	Pass
5230.00	5230.00	0.00	0.00	5245.02	5229.83	2.12	-195.12	270.62	195.13	38.18	168.85	8.10	OSF 1.50	Pass
5240.00	5240.00	0.00	0.00	5255.00	5239.81	2.07	-195.13	270.61	195.14	38.25	168.81	8.08	OSF 1.50	Pass
5250.00	5250.00	0.00	0.00	5264.98	5249.80	2.01	-195.14	270.59	195.15	38.32	168.77	8.07	OSF 1.50	Pass
5260.00	5260.00	0.00	0.00	5274.96	5259.78	1.96	-195.15	270.57	195.16	38.39	168.74	8.05	OSF 1.50	Pass
5270.00	5270.00	0.00	0.00	5284.95	5269.76	1.90	-195.16	270.56	195.17	38.46	168.70	8.04	OSF 1.50	Pass
5280.00	5280.00	0.00	0.00	5294.93	5279.74	1.84	-195.18	270.54	195.19	38.53	168.67	8.02	OSF 1.50	Pass
5290.00	5290.00	0.00	0.00	5304.91	5289.72	1.78	-195.19	270.52	195.20	38.60	168.64	8.01	OSF 1.50	Pass
5300.00	5300.00	0.00	0.00	5315.03	5299.84	1.72	-195.20	270.51	195.21	38.66	168.61	7.99	OSF 1.50	Pass
5310.00	5310.00	0.00	0.00	5325.17	5309.98	1.67	-195.21	270.49	195.22	38.72	168.57	7.98	OSF 1.50	Pass
5320.00	5320.00	0.00	0.00	5335.31	5320.13	1.63	-195.21	270.48	195.21	38.78	168.52	7.97	OSF 1.50	Pass
5330.00	5330.00	0.00	0.00	5345.46	5330.27	1.59	-195.20	270.47	195.20	38.85	168.47	7.95	OSF 1.50	Pass
5340.00	5340.00	0.00	0.00	5355.53	5340.35	1.56	-195.18	270.46	195.19	38.91	168.41	7.94	OSF 1.50	Pass
5350.00	5350.00	0.00	0.00	5365.30	5350.11	1.55	-195.17	270.45	195.17	38.96	168.37	7.93	OSF 1.50	Pass
5360.00	5360.00	0.00	0.00	5375.07	5359.88	1.54	-195.17	270.45	195.17	39.02	168.33	7.91	OSF 1.50	Pass
5370.00	5370.00	0.00	0.00	5384.90	5369.71	1.54	-195.18	270.45	195.19	39.08	168.30	7.90	OSF 1.50	Pass
5380.00	5380.00	0.00	0.00	5394.98	5379.79	1.53	-195.19	270.45	195.20	39.15	168.27	7.89	OSF 1.50	Pass
5390.00	5390.00	0.00	0.00	5405.05	5389.86	1.52	-195.20	270.45	195.21	39.21	168.23	7.87	OSF 1.50	Pass
5400.00	5400.00	0.00	0.00	5415.13	5399.94	1.51	-195.21	270.44	195.21	39.28	168.20	7.86	OSF 1.50	Pass
5410.00	5410.00	0.00	0.00	5425.21	5410.02	1.49	-195.21	270.44	195.21	39.34	168.15	7.85	OSF 1.50	Pass
5420.00	5420.00	0.00	0.00	5435.29	5420.10	1.48	-195.21	270.43	195.21	39.41	168.11	7.83	OSF 1.50	Pass
5430.00	5430.00	0.00	0.00	5445.37	5430.18	1.46	-195.20	270.43	195.20	39.47	168.06	7.82	OSF 1.50	Pass
5440.00	5440.00	0.00	0.00	5455.45	5440.26	1.44	-195.19	270.42	195.19	39.54	168.00	7.80	OSF 1.50	Pass
5450.00	5450.00	0.00	0.00	5465.53	5450.34	1.42	-195.17	270.42	195.18	39.60	167.94	7.79	OSF 1.50	Pass
5460.00	5460.00	0.00	0.00	5475.61	5460.42	1.40	-195.15	270.41	195.16	39.67	167.88	7.78	OSF 1.50	Pass
5470.00	5470.00	0.00	0.00	5485.69	5470.50	1.38	-195.13	270.41	195.13	39.73	167.81	7.76	OSF 1.50	Pass
5480.00	5480.00	0.00	0.00	5495.77	5480.58	1.36	-195.10	270.40	195.11	39.80	167.74	7.75	OSF 1.50	Pass
5490.00	5490.00	0.00	0.00	5505.78	5490.59	1.34	-195.07	270.39	195.07	39.86	167.67	7.73	OSF 1.50	Pass
5500.00	5500.00	0.00	0.00	5515.73	5500.54	1.32	-195.04	270.39	195.05	39.92	167.60	7.72	OSF 1.50	Pass
5510.00	5510.00	0.00	0.00	5525.68	5510.49	1.31	-195.01	270.38	195.02	39.99	167.53	7.70	OSF 1.50	Pass
5520.00	5520.00	0.00	0.00	5535.63	5520.45	1.30	-194.99	270.38	194.99	40.05	167.46	7.69	OSF 1.50	Pass
5530.00	5530.00	0.00	0.00	5545.59	5530.40	1.29	-194.97	270.38	194.97	40.12	167.39	7.67	OSF 1.50	Pass
5540.00	5540.00	0.00	0.00	5555.54	5540.35	1.29	-194.95	270.38	194.95	40.18	167.33	7.66	OSF 1.50	Pass
5550.00	5550.00	0.00	0.00	5565.49	5550.30	1.29	-194.93	270.38	194.94	40.25	167.27	7.65	OSF 1.50	Pass
5560.00	5560.00	0.00	0.00	5575.45	5560.26	1.29	-194.92	270.38	194.92	40.31	167.21	7.63	OSF 1.50	Pass
5570.00	5570.00	0.00	0.00	5585.40	5570.21	1.30	-194.91	270.38	194.91	40.38	167.16	7.62	OSF 1.50	Pass
5580.00	5580.00	0.00	0.00	5595.35	5580.16	1.31	-194.90	270.39	194.90	40.44	167.11	7.61	OSF 1.50	Pass
5590.00	5590.00	0.00	0.00	5605.32	5590.13	1.33	-194.89	270.39	194.89	40.51	167.05	7.59	OSF 1.50	Pass
5600.00	5600.00	0.00	0.00	5615.28	5600.09	1.34	-194.88	270.40	194.89	40.57	167.01	7.58	OSF 1.50	Pass
5610.00	5610.00	0.00	0.00	5625.25	5610.06	1.36	-194.88	270.40	194.88	40.64	166.96	7.57	OSF 1.50	Pass
5620.00	5620.00	0.00	0.00	5635.21	5620.02	1.39	-194.88	270.41	194.88	40.70	166.91	7.55	OSF 1.50	Pass
5630.00	5630.00	0.00	0.00	5645.17	5629.98	1.41	-194.88	270.41	194.88	40.77	166.87	7.54	OSF 1.50	Pass
5640.00	5640.00	0.00	0.00	5655.14	5639.95	1.44	-194.88	270.42	194.88	40.83	166.83	7.53	OSF 1.50	Pass
5650.00	5650.00	0.00	0.00</											

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	CI-Cl Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
5750.00	5750.00	0.00	0.00	5764.49	5749.30	1.92	-195.06	270.56	195.07	41.55	166.54	7.40	OSF 1.50	Pass
5760.00	5760.00	0.00	0.00	5774.41	5759.22	1.99	-195.10	270.58	195.11	41.62	166.53	7.39	OSF 1.50	Pass
5770.00	5770.00	0.00	0.00	5784.34	5769.15	2.06	-195.14	270.60	195.15	41.68	166.53	7.37	OSF 1.50	Pass
5780.00	5780.00	0.00	0.00	5794.37	5779.18	2.13	-195.18	270.63	195.19	41.75	166.53	7.36	OSF 1.50	Pass
5790.00	5790.00	0.00	0.00	5804.40	5789.21	2.20	-195.22	270.65	195.24	41.81	166.53	7.35	OSF 1.50	Pass
5800.00	5800.00	0.00	0.00	5814.43	5799.24	2.27	-195.26	270.67	195.28	41.88	166.52	7.34	OSF 1.50	Pass
5810.00	5810.00	0.00	0.00	5824.46	5809.27	2.34	-195.30	270.69	195.31	41.94	166.52	7.33	OSF 1.50	Pass
5820.00	5820.00	0.00	0.00	5834.49	5819.29	2.41	-195.33	270.71	195.35	42.01	166.51	7.32	OSF 1.50	Pass
5830.00	5830.00	0.00	0.00	5844.52	5829.32	2.47	-195.37	270.73	195.39	42.07	166.50	7.31	OSF 1.50	Pass
5840.00	5840.00	0.00	0.00	5854.55	5839.35	2.54	-195.40	270.74	195.42	42.14	166.49	7.30	OSF 1.50	Pass
5850.00	5850.00	0.00	0.00	5864.58	5849.38	2.61	-195.43	270.76	195.45	42.20	166.48	7.29	OSF 1.50	Pass
5860.00	5860.00	0.00	0.00	5874.61	5859.41	2.67	-195.46	270.78	195.48	42.27	166.47	7.28	OSF 1.50	Pass
5870.00	5870.00	0.00	0.00	5884.62	5869.44	2.73	-195.49	270.80	195.51	42.34	166.46	7.27	OSF 1.50	Pass
5880.00	5880.00	0.00	0.00	5894.64	5879.44	2.80	-195.52	270.82	195.54	42.40	166.44	7.26	OSF 1.50	Pass
5890.00	5890.00	0.00	0.00	5904.65	5889.46	2.87	-195.55	270.84	195.57	42.47	166.43	7.25	OSF 1.50	Pass
5900.00	5900.00	0.00	0.00	5914.66	5899.47	2.94	-195.57	270.86	195.60	42.53	166.41	7.24	OSF 1.50	Pass
5910.00	5910.00	0.00	0.00	5924.68	5909.48	3.01	-195.60	270.88	195.62	42.60	166.39	7.22	OSF 1.50	Pass
5920.00	5920.00	0.00	0.00	5934.69	5919.50	3.08	-195.62	270.90	195.65	42.66	166.38	7.21	OSF 1.50	Pass
5930.00	5930.00	0.00	0.00	5944.71	5929.51	3.16	-195.65	270.92	195.68	42.73	166.36	7.20	OSF 1.50	Pass
5940.00	5940.00	0.00	0.00	5954.72	5939.53	3.23	-195.67	270.95	195.70	42.79	166.34	7.19	OSF 1.50	Pass
5950.00	5950.00	0.00	0.00	5964.74	5949.54	3.31	-195.70	270.97	195.72	42.86	166.32	7.18	OSF 1.50	Pass
5960.00	5960.00	0.00	0.00	5974.75	5959.55	3.39	-195.72	270.99	195.75	42.92	166.30	7.17	OSF 1.50	Pass
5970.00	5970.00	0.00	0.00	5984.79	5969.59	3.47	-195.74	271.02	195.77	42.99	166.28	7.16	OSF 1.50	Pass
5980.00	5980.00	0.00	0.00	5994.85	5979.65	3.56	-195.76	271.04	195.79	43.06	166.25	7.15	OSF 1.50	Pass
5990.00	5990.00	0.00	0.00	6004.91	5989.71	3.64	-195.77	271.07	195.80	43.12	166.22	7.14	OSF 1.50	Pass
6000.00	6000.00	0.00	0.00	6014.97	5999.77	3.73	-195.78	271.09	195.82	43.19	166.19	7.13	OSF 1.50	Pass
6010.00	6010.00	0.00	0.00	6025.03	6009.83	3.83	-195.79	271.12	195.83	43.26	166.16	7.11	OSF 1.50	Pass
6020.00	6020.00	0.00	0.00	6035.09	6019.89	3.92	-195.80	271.15	195.83	43.33	166.12	7.10	OSF 1.50	Pass
6030.00	6030.00	0.00	0.00	6045.15	6029.95	4.02	-195.80	271.18	195.84	43.39	166.08	7.09	OSF 1.50	Pass
6040.00	6040.00	0.00	0.00	6055.21	6040.01	4.12	-195.80	271.21	195.84	43.46	166.03	7.08	OSF 1.50	Pass
6050.00	6050.00	0.00	0.00	6065.27	6050.07	4.23	-195.79	271.24	195.84	43.53	165.99	7.07	OSF 1.50	Pass
6060.00	6060.00	0.00	0.00	6075.32	6060.12	4.34	-195.78	271.27	195.83	43.59	165.94	7.06	OSF 1.50	Pass
6070.00	6070.00	0.00	0.00	6085.32	6070.12	4.44	-195.78	271.30	195.83	43.66	165.89	7.05	OSF 1.50	Pass
6080.00	6080.00	0.00	0.00	6095.32	6080.12	4.55	-195.77	271.33	195.82	43.72	165.84	7.03	OSF 1.50	Pass
6090.00	6090.00	0.00	0.00	6105.32	6090.12	4.65	-195.76	271.36	195.81	43.79	165.79	7.02	OSF 1.50	Pass
6100.00	6100.00	0.00	0.00	6115.32	6100.12	4.74	-195.75	271.39	195.81	43.85	165.74	7.01	OSF 1.50	Pass
6110.00	6110.00	0.00	0.00	6125.32	6110.12	4.84	-195.74	271.42	195.80	43.92	165.69	7.00	OSF 1.50	Pass
6120.00	6120.00	0.00	0.00	6135.32	6120.12	4.93	-195.73	271.44	195.80	43.98	165.64	6.99	OSF 1.50	Pass
6130.00	6130.00	0.00	0.00	6145.32	6130.12	5.02	-195.73	271.47	195.79	44.05	165.59	6.98	OSF 1.50	Pass
6140.00	6140.00	0.00	0.00	6155.32	6140.12	5.11	-195.72	271.50	195.78	44.11	165.54	6.97	OSF 1.50	Pass
6150.00	6150.00	0.00	0.00	6165.32	6150.12	5.20	-195.71	271.52	195.78	44.18	165.49	6.96	OSF 1.50	Pass
6160.00	6160.00	0.00	0.00	6175.29	6160.08	5.28	-195.70	271.55	195.77	44.24	165.44	6.94	OSF 1.50	Pass
6170.00	6170.00	0.00	0.00	6185.25	6170.04	5.37	-195.70	271.57	195.77	44.31	165.40	6.93	OSF 1.50	Pass
6180.00	6180.00	0.00	0.00	6195.20	6180.00	5.46	-195.69	271.60	195.77	44.37	165.35	6.92	OSF 1.50	Pass
6190.00	6190.00	0.00	0.00	6205.16	6189.95	5.55	-195.69	271.62	195.77	44.44	165.31	6.91	OSF 1.50	Pass
6200.00	6200.00	0.00	0.00	6215.11	6199.91	5.64	-195.69	271.65	195.77	44.50	165.27	6.90	OSF 1.50	Pass
6210.00	6210.00	0.00	0.00	6225.07	6209.86	5.74	-195.70	271.68	195.78	44.57	165.24	6.89	OSF 1.50	Pass
6220.00	6220.00	0.00	0.00	6235.03	6219.82	5.83	-195.70	271.71	195.79	44.63	165.20	6.88	OSF 1.50	Pass
6230.00	6230.00	0.00	0.00	6244.98	6229.77	5.94	-195.71	271.74	195.80	44.70	165.17	6.87	OSF 1.50	Pass
6240.00	6240.00	0.00	0.00	6254.94	6239.73	6.04	-195.72	271.77	195.81	44.76	165.14	6.86	OSF 1.50	Pass
6250.00	6250.00	0.00	0.00	6264.89	6249.68	6.14	-195.73	271.80	195.83	44.83	165.11	6.85	OSF 1.50	Pass
6260.00	6260.00	0.00	0.00	6274.84	6259.63	6.25	-195.74	271.83	195.84	44.89	165.08	6.84	OSF 1.50	Pass
6270.00	6270.00	0.00	0.00	6284.79	6269.58	6.36	-195.75	271.86	195.85	44.96	165.05	6.83	OSF 1.50	Pass
6280.00	6280.00	0.00	0.00	6294.75	6279.52	6.47	-195.76	271.89	195.86	45.02	165.02	6.82	OSF 1.50	Pass
6290.00	6290.00	0.00	0.00	6304.70	6289.47	6.58	-195.76	271.92	195.87	45.09	164.98	6.81	OSF 1.50	Pass
6300.00	6300.00	0.00	0.00	6314.65	6299.42	6.68	-195.76	271.95	195.88	45.16	164.94	6.80	OSF 1.50	Pass
6310.00	6310.00	0.00	0.00	6324.60	6309.37	6.79	-195.76	271.98	195.88	45.22	164.90	6.79	OSF 1.50	Pass
6320.00	6320.00	0.00	0.00	6334.55	6319.32	6.90	-195.76	272.02	195.88	45.29	164.86	6.78	OSF 1.50	Pass
6330.00	6330.00	0.00	0.00	6344.50	6329.27	7.01	-195.75	272.05	195.88	45.36	164.81	6.77	OSF 1.50	Pass
6340.00	6340.00	0.00	0.00	6354.45	6339.22	7.12	-195.75	272.08	195.88	45.42	164.76	6.76	OSF 1.50	Pass
6350.00	6350.00	0.00	0.00	6364.40	6349.17	7.22	-195.74	272.11	195.87	45.49	164.71	6.75	OSF 1.50	Pass
6360.00	6360.00	0.00	0.00	6374.35	6359.12	7.32	-195.73	272.14	195.86	45.55	164.66	6.74	OSF 1.50	Pass
6370.00	6370.00	0.00	0.00	6384.30	6369.07	7.42	-195.72	272.17	195.86	45.62	164.62	6.73	OSF 1.50	Pass
6380.00	6380.00	0.00	0.00	6394.25	6379.02	7.51	-195.71	272.20	195.86	45.68	164.57	6.72	OSF 1.50	Pass
6390.00	6390.00	0.00	0.00	6404.20	6388.97	7.59	-195.71	272.22	195.86	45.75	164.53	6.71	OSF 1.50	Pass
6400.00	6400.00	0.00	0.00	6414.15	6398.92	7.67	-195.71	272.25	195.86	45.81	164.48	6.70	OSF 1.50	Pass
6410.00	6410.00	0.00	0.00	6424.10	6408.87	7.75	-195.71	272.27	195.86	45.87	164.44	6.69	OSF 1.50	Pass
6420.00	6420.00	0.00	0.00	6434.05	6418.82	7.81	-195.71	272.29	195.86	45.94	164.40	6.68	OSF 1.50	Pass
6430.00	6430.00	0.00	0.00	6444.00	6428.77	7.88	-195.71	272.30	195.87	46.00	164.36	6.67	OSF 1.50	Pass
6440.00	6440.00	0.00	0.00	6453.95	6438.72	7.93	-195.71	272.32	195.87	46.07	164.33	6.66	OSF 1.50	Pass
6450.00	6450.00	0.00	0.00	6463.90	6448.67	7.99	-195.71	272.34	195.88	46.13	164.29	6.65	OSF 1.50	Pass
6460.00	6460.00	0.00	0.00	6473.85	6458.62	8.05	-195.71	272.36	195.88	46.20	164.25	6.64	OSF 1.50	Pass
6470.00	6470.00	0.00	0.00	6483.80	6468.57	8.12	-195.71	272.38	195.88	46.26	164.20	6.63	OSF 1.50	Pass
6480.00	6480.00	0.00	0.00	6493.75	6478.52	8.20	-195.70	272.40	195.87	46.33	164.15	6.62	OSF 1.50	Pass
6490.00	6490.00	0.00	0.00	6503.70	6488.47	8.27	-195.69	272.42	195.86	46.39	164.10	6.61	OSF 1.50	Pass
6500.00	6500.00	0.00	0.00	6										

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6600.00	6600.00	0.00	0.00	6614.99	6599.76	9.38	-195.54	272.75	195.76	47.12	163.52	6.50	OSF 1.50	Pass
6610.00	6610.00	0.00	0.00	6624.89	6609.66	9.48	-195.55	272.78	195.78	47.18	163.49	6.49	OSF 1.50	Pass
6620.00	6620.00	0.00	0.00	6634.79	6619.56	9.59	-195.56	272.81	195.80	47.25	163.46	6.48	OSF 1.50	Pass
6630.00	6630.00	0.00	0.00	6644.71	6629.49	9.69	-195.58	272.84	195.82	47.32	163.45	6.47	OSF 1.50	Pass
6640.00	6640.00	0.00	0.00	6654.75	6639.52	9.79	-195.60	272.87	195.85	47.38	163.43	6.46	OSF 1.50	Pass
6650.00	6650.00	0.00	0.00	6664.78	6649.56	9.89	-195.62	272.89	195.87	47.44	163.41	6.45	OSF 1.50	Pass
6660.00	6660.00	0.00	0.00	6674.82	6659.59	9.98	-195.64	272.92	195.89	47.51	163.39	6.45	OSF 1.50	Pass
6670.00	6670.00	0.00	0.00	6684.86	6669.63	10.07	-195.65	272.95	195.91	47.57	163.37	6.44	OSF 1.50	Pass
6680.00	6680.00	0.00	0.00	6694.89	6679.66	10.15	-195.67	272.97	195.93	47.64	163.34	6.43	OSF 1.50	Pass
6690.00	6690.00	0.00	0.00	6704.93	6689.70	10.22	-195.68	272.99	195.95	47.70	163.31	6.42	OSF 1.50	Pass
6700.00	6700.00	0.00	0.00	6714.97	6699.74	10.29	-195.69	273.01	195.96	47.76	163.29	6.41	OSF 1.50	Pass
6710.00	6710.00	0.00	0.00	6725.00	6709.77	10.36	-195.70	273.03	195.97	47.83	163.26	6.40	OSF 1.50	Pass
6720.00	6720.00	0.00	0.00	6735.04	6719.81	10.41	-195.71	273.05	195.98	47.89	163.22	6.39	OSF 1.50	Pass
6730.00	6730.00	0.00	0.00	6745.07	6729.77	10.47	-195.72	273.06	196.00	47.96	163.19	6.39	OSF 1.50	Pass
6740.00	6740.00	0.00	0.00	6754.95	6739.72	10.52	-195.73	273.08	196.01	48.02	163.16	6.38	OSF 1.50	Pass
6750.00	6750.00	0.00	0.00	6764.90	6749.67	10.58	-195.74	273.10	196.02	48.09	163.13	6.37	OSF 1.50	Pass
6760.00	6760.00	0.00	0.00	6774.85	6759.62	10.65	-195.75	273.11	196.04	48.15	163.11	6.36	OSF 1.50	Pass
6770.00	6770.00	0.00	0.00	6784.80	6769.57	10.71	-195.77	273.13	196.06	48.22	163.09	6.35	OSF 1.50	Pass
6780.00	6780.00	0.00	0.00	6794.75	6779.52	10.78	-195.79	273.15	196.09	48.28	163.07	6.34	OSF 1.50	Pass
6790.00	6790.00	0.00	0.00	6804.70	6789.47	10.85	-195.81	273.17	196.11	48.35	163.05	6.33	OSF 1.50	Pass
6800.00	6800.00	0.00	0.00	6814.65	6799.42	10.92	-195.83	273.19	196.14	48.41	163.03	6.33	OSF 1.50	Pass
6810.00	6810.00	0.00	0.00	6824.60	6809.37	10.99	-195.86	273.21	196.17	48.48	163.02	6.32	OSF 1.50	Pass
6820.00	6820.00	0.00	0.00	6834.57	6819.33	11.07	-195.89	273.23	196.20	48.54	163.01	6.31	OSF 1.50	Pass
6830.00	6830.00	0.00	0.00	6844.50	6829.37	11.15	-195.92	273.26	196.24	48.61	163.00	6.30	OSF 1.50	Pass
6840.00	6840.00	0.00	0.00	6854.64	6839.40	11.23	-195.95	273.28	196.27	48.67	162.99	6.29	OSF 1.50	Pass
6850.00	6850.00	0.00	0.00	6864.67	6849.44	11.30	-195.97	273.30	196.30	48.74	162.97	6.29	OSF 1.50	Pass
6860.00	6860.00	0.00	0.00	6874.71	6859.47	11.38	-195.99	273.32	196.33	48.80	162.96	6.28	OSF 1.50	Pass
6870.00	6870.00	0.00	0.00	6884.74	6869.51	11.45	-196.02	273.34	196.35	48.87	162.94	6.27	OSF 1.50	Pass
6880.00	6880.00	0.00	0.00	6894.78	6879.55	11.52	-196.04	273.36	196.38	48.93	162.92	6.26	OSF 1.50	Pass
6890.00	6890.00	0.00	0.00	6904.82	6889.58	11.59	-196.05	273.38	196.40	49.00	162.90	6.25	OSF 1.50	Pass
6900.00	6900.00	0.00	0.00	6914.85	6899.62	11.66	-196.07	273.40	196.42	49.07	162.87	6.25	OSF 1.50	Pass
6910.00	6910.00	0.00	0.00	6924.89	6909.65	11.73	-196.09	273.42	196.44	49.13	162.85	6.24	OSF 1.50	Pass
6920.00	6920.00	0.00	0.00	6934.97	6919.73	11.80	-196.10	273.44	196.45	49.20	162.82	6.23	OSF 1.50	Pass
6930.00	6930.00	0.00	0.00	6945.06	6929.83	11.87	-196.10	273.46	196.46	49.26	162.79	6.22	OSF 1.50	Pass
6940.00	6940.00	0.00	0.00	6955.15	6939.92	11.94	-196.11	273.48	196.47	49.33	162.75	6.21	OSF 1.50	Pass
6950.00	6950.00	0.00	0.00	6965.24	6950.01	12.01	-196.10	273.50	196.47	49.40	162.71	6.20	OSF 1.50	Pass
6960.00	6960.00	0.00	0.00	6975.34	6960.10	12.07	-196.10	273.52	196.47	49.46	162.66	6.20	OSF 1.50	Pass
6970.00	6970.00	0.00	0.00	6985.43	6970.19	12.14	-196.09	273.54	196.46	49.53	162.61	6.19	OSF 1.50	Pass
6980.00	6980.00	0.00	0.00	6995.52	6980.28	12.20	-196.07	273.56	196.45	49.59	162.55	6.18	OSF 1.50	Pass
6990.00	6990.00	0.00	0.00	7005.61	6990.37	12.27	-196.05	273.58	196.43	49.66	162.49	6.17	OSF 1.50	Pass
7000.00	7000.00	0.00	0.00	7015.70	7000.46	12.33	-196.02	273.60	196.41	49.73	162.43	6.16	OSF 1.50	Pass
7010.00	7010.00	0.00	0.00	7025.76	7010.53	12.39	-195.99	273.62	196.39	49.79	162.36	6.15	OSF 1.50	Pass
7020.00	7020.00	0.00	0.00	7035.74	7020.50	12.46	-195.96	273.64	196.36	49.86	162.29	6.14	OSF 1.50	Pass
7030.00	7030.00	0.00	0.00	7045.71	7030.47	12.52	-195.94	273.65	196.34	49.92	162.22	6.13	OSF 1.50	Pass
7040.00	7040.00	0.00	0.00	7055.69	7040.45	12.57	-195.91	273.67	196.31	49.99	162.15	6.12	OSF 1.50	Pass
7050.00	7050.00	0.00	0.00	7065.66	7050.42	12.63	-195.88	273.69	196.29	50.05	162.09	6.11	OSF 1.50	Pass
7060.00	7060.00	0.00	0.00	7075.64	7060.40	12.69	-195.86	273.71	196.27	50.12	162.02	6.10	OSF 1.50	Pass
7070.00	7070.00	0.00	0.00	7085.61	7070.37	12.75	-195.83	273.72	196.25	50.18	161.96	6.10	OSF 1.50	Pass
7080.00	7080.00	0.00	0.00	7095.59	7080.35	12.80	-195.81	273.74	196.23	50.25	161.90	6.09	OSF 1.50	Pass
7090.00	7090.00	0.00	0.00	7105.56	7090.32	12.85	-195.79	273.76	196.21	50.31	161.84	6.08	OSF 1.50	Pass
7100.00	7100.00	0.00	0.00	7115.54	7100.30	12.91	-195.77	273.77	196.20	50.38	161.78	6.07	OSF 1.50	Pass
7110.00	7110.00	0.00	0.00	7125.51	7110.27	12.96	-195.75	273.79	196.18	50.44	161.72	6.06	OSF 1.50	Pass
7120.00	7120.00	0.00	0.00	7135.50	7120.26	13.01	-195.74	273.80	196.17	50.51	161.67	6.05	OSF 1.50	Pass
7130.00	7130.00	0.00	0.00	7145.49	7130.25	13.06	-195.72	273.82	196.16	50.57	161.61	6.04	OSF 1.50	Pass
7140.00	7140.00	0.00	0.00	7155.47	7140.23	13.11	-195.71	273.83	196.14	50.63	161.55	6.03	OSF 1.50	Pass
7150.00	7150.00	0.00	0.00	7165.46	7150.22	13.17	-195.69	273.85	196.13	50.70	161.50	6.03	OSF 1.50	Pass
7160.00	7160.00	0.00	0.00	7175.45	7160.21	13.22	-195.68	273.86	196.12	50.76	161.45	6.02	OSF 1.50	Pass
7170.00	7170.00	0.00	0.00	7185.43	7170.19	13.27	-195.66	273.88	196.11	50.83	161.39	6.01	OSF 1.50	Pass
7180.00	7180.00	0.00	0.00	7195.42	7180.18	13.32	-195.65	273.90	196.10	50.89	161.34	6.00	OSF 1.50	Pass
7190.00	7190.00	0.00	0.00	7205.41	7190.17	13.37	-195.64	273.91	196.09	50.96	161.29	5.99	OSF 1.50	Pass
7200.00	7200.00	0.00	0.00	7215.40	7200.16	13.43	-195.63	273.93	196.09	51.02	161.24	5.98	OSF 1.50	Pass
7210.00	7210.00	0.00	0.00	7225.41	7210.17	13.48	-195.61	273.94	196.08	51.09	161.19	5.98	OSF 1.50	Pass
7220.00	7220.00	0.00	0.00	7235.41	7220.17	13.54	-195.60	273.96	196.07	51.15	161.13	5.97	OSF 1.50	Pass
7230.00	7230.00	0.00	0.00	7245.42	7230.18	13.60	-195.59	273.98	196.06	51.22	161.08	5.96	OSF 1.50	Pass
7240.00	7240.00	0.00	0.00	7255.43	7240.19	13.66	-195.57	274.00	196.05	51.28	161.03	5.95	OSF 1.50	Pass
7250.00	7250.00	0.00	0.00	7265.44	7250.20	13.73	-195.56	274.02	196.04	51.35	160.97	5.94	OSF 1.50	Pass
7260.00	7260.00	0.00	0.00	7275.45	7260.21	13.80	-195.54	274.04	196.03	51.42	160.92	5.93	OSF 1.50	Pass
7270.00	7270.00	0.00	0.00	7285.46	7270.22	13.87	-195.53	274.06	196.02	51.48	160.86	5.93	OSF 1.50	Pass
7280.00	7280.00	0.00	0.00	7295.47	7280.23	13.95	-195.51	274.08	196.01	51.55	160.81	5.92	OSF 1.50	Pass
7290.00	7290.00	0.00	0.00	7305.47	7290.23	14.03	-195.49	274.10	196.00	51.61	160.75	5.91	OSF 1.50	Pass
7300.00	7300.00	0.00	0.00	7315.45	7300.20	14.11	-195.48	274.13	195.98	51.68	160.70	5.90	OSF 1.50	Pass
7310.00	7310.00	0.00	0.00	7325.36	7310.12	14.19	-195.46	274.15	195.98	51.75	160.65	5.89	OSF 1.50	Pass
7320.00	7320.00	0.00	0.00	7335.28	7320.04	14.27	-195.45	274.18	195.97	51.81	160.60	5.89	OSF 1.50	Pass
7330.00	7330.00	0.00	0.00	7345.20	7329.95	14.35	-195.45	274.20	195.97	51.88	160.55	5.88	OSF 1.50	Pass
7340.00	7340.00	0.00	0.00	7355.12	7339.87	14.43	-195.44	274.22	195.98	51.95	160.51	5.87		

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
7450.00	7450.00	0.00	0.00	7464.61	7448.36	15.31	-195.65	274.48	196.25	52.67	160.30	5.79	OSF 1.50	Pass
7460.00	7460.00	0.00	0.00	7474.60	7458.35	15.39	-195.67	274.50	196.28	52.73	160.29	5.79	OSF 1.50	Pass
7470.00	7470.00	0.00	0.00	7484.59	7468.34	15.47	-195.70	274.52	196.31	52.80	160.28	5.78	OSF 1.50	Pass
7480.00	7480.00	0.00	0.00	7494.58	7478.33	15.55	-195.73	274.54	196.35	52.87	160.27	5.77	OSF 1.50	Pass
7490.00	7490.00	0.00	0.00	7504.59	7488.34	15.63	-195.76	274.56	196.38	52.93	160.26	5.77	OSF 1.50	Pass
7500.00	7500.00	0.00	0.00	7514.63	7498.38	15.70	-195.78	274.59	196.41	53.00	160.25	5.76	OSF 1.50	Pass
7510.00	7510.00	0.00	0.00	7524.68	7508.43	15.77	-195.81	274.61	196.44	53.06	160.24	5.75	OSF 1.50	Pass
7520.00	7520.00	0.00	0.00	7534.73	7518.47	15.84	-195.83	274.62	196.47	53.13	160.22	5.75	OSF 1.50	Pass
7530.00	7530.00	0.00	0.00	7544.77	7528.52	15.90	-195.85	274.64	196.50	53.19	160.20	5.74	OSF 1.50	Pass
7540.00	7540.00	0.00	0.00	7554.82	7538.57	15.96	-195.87	274.66	196.52	53.26	160.18	5.73	OSF 1.50	Pass
7550.00	7550.00	0.00	0.00	7564.86	7548.61	16.02	-195.89	274.67	196.54	53.32	160.16	5.73	OSF 1.50	Pass
7560.00	7560.00	0.00	0.00	7574.91	7558.66	16.07	-195.90	274.69	196.56	53.38	160.14	5.72	OSF 1.50	Pass
7570.00	7570.00	0.00	0.00	7584.96	7568.71	16.11	-195.91	274.70	196.58	53.45	160.11	5.71	OSF 1.50	Pass
7580.00	7580.00	0.00	0.00	7595.00	7578.75	16.15	-195.92	274.71	196.59	53.51	160.08	5.71	OSF 1.50	Pass
7590.00	7590.00	0.00	0.00	7605.04	7588.79	16.19	-195.93	274.72	196.60	53.58	160.05	5.70	OSF 1.50	Pass
7600.00	7600.00	0.00	0.00	7615.08	7598.82	16.23	-195.94	274.74	196.61	53.65	160.01	5.69	OSF 1.50	Pass
7610.00	7610.00	0.00	0.00	7625.11	7608.86	16.28	-195.94	274.75	196.62	53.71	159.98	5.69	OSF 1.50	Pass
7620.00	7620.00	0.00	0.00	7635.15	7618.89	16.33	-195.95	274.77	196.62	53.78	159.94	5.68	OSF 1.50	Pass
7630.00	7630.00	0.00	0.00	7645.18	7628.93	16.39	-195.94	274.78	196.63	53.84	159.90	5.67	OSF 1.50	Pass
7640.00	7640.00	0.00	0.00	7655.22	7638.96	16.45	-195.94	274.80	196.63	53.91	159.86	5.66	OSF 1.50	Pass
7650.00	7650.00	0.00	0.00	7665.25	7650.00	16.52	-195.94	274.82	196.63	53.97	159.82	5.66	OSF 1.50	Pass
7660.00	7660.00	0.00	0.00	7675.29	7660.03	16.59	-195.93	274.84	196.63	54.04	159.77	5.65	OSF 1.50	Pass
7670.00	7670.00	0.00	0.00	7685.32	7670.07	16.67	-195.92	274.86	196.63	54.10	159.73	5.64	OSF 1.50	Pass
7680.00	7680.00	0.00	0.00	7695.36	7680.11	16.75	-195.91	274.89	196.62	54.17	159.68	5.64	OSF 1.50	Pass
7690.00	7690.00	0.00	0.00	7705.42	7690.16	16.83	-195.90	274.91	196.62	54.23	159.63	5.63	OSF 1.50	Pass
7700.00	7700.00	0.00	0.00	7715.47	7700.22	16.91	-195.88	274.93	196.61	54.30	159.58	5.62	OSF 1.50	Pass
7710.00	7710.00	0.00	0.00	7725.53	7710.27	16.98	-195.86	274.95	196.60	54.36	159.52	5.61	OSF 1.50	Pass
7720.00	7720.00	0.00	0.00	7735.58	7720.33	17.05	-195.84	274.97	196.58	54.43	159.46	5.61	OSF 1.50	Pass
7730.00	7730.00	0.00	0.00	7745.64	7730.39	17.11	-195.82	274.99	196.56	54.50	159.40	5.60	OSF 1.50	Pass
7740.00	7740.00	0.00	0.00	7755.70	7740.44	17.17	-195.79	275.01	196.54	54.56	159.33	5.59	OSF 1.50	Pass
7750.00	7750.00	0.00	0.00	7765.75	7750.50	17.22	-195.76	275.03	196.52	54.63	159.27	5.58	OSF 1.50	Pass
7760.00	7760.00	0.00	0.00	7775.81	7760.55	17.27	-195.73	275.04	196.49	54.69	159.20	5.58	OSF 1.50	Pass
7770.00	7770.00	0.00	0.00	7785.86	7770.61	17.32	-195.70	275.06	196.46	54.76	159.12	5.57	OSF 1.50	Pass
7780.00	7780.00	0.00	0.00	7795.81	7780.66	17.36	-195.66	275.07	196.43	54.82	159.05	5.56	OSF 1.50	Pass
7790.00	7790.00	0.00	0.00	7805.70	7790.64	17.40	-195.63	275.08	196.41	54.89	158.98	5.55	OSF 1.50	Pass
7800.00	7800.00	0.00	0.00	7815.58	7800.33	17.44	-195.61	275.09	196.39	54.95	158.92	5.54	OSF 1.50	Pass
7810.00	7810.00	0.00	0.00	7825.47	7810.21	17.48	-195.59	275.11	196.37	55.02	158.86	5.54	OSF 1.50	Pass
7820.00	7820.00	0.00	0.00	7835.35	7820.10	17.53	-195.58	275.12	196.36	55.09	158.81	5.53	OSF 1.50	Pass
7830.00	7830.00	0.00	0.00	7845.24	7829.98	17.57	-195.57	275.13	196.35	55.15	158.76	5.52	OSF 1.50	Pass
7840.00	7840.00	0.00	0.00	7855.12	7839.87	17.62	-195.57	275.15	196.37	55.22	158.72	5.52	OSF 1.50	Pass
7850.00	7850.00	0.00	0.00	7865.01	7849.75	17.67	-195.58	275.16	196.38	55.28	158.69	5.51	OSF 1.50	Pass
7860.00	7860.00	0.00	0.00	7874.90	7859.64	17.72	-195.59	275.18	196.39	55.35	158.66	5.50	OSF 1.50	Pass
7870.00	7870.00	0.00	0.00	7884.79	7869.53	17.76	-195.61	275.19	196.41	55.41	158.64	5.50	OSF 1.50	Pass
7880.00	7880.00	0.00	0.00	7894.66	7879.60	17.81	-195.62	275.20	196.43	55.48	158.62	5.49	OSF 1.50	Pass
7890.00	7890.00	0.00	0.00	7904.53	7889.67	17.86	-195.64	275.22	196.45	55.54	158.59	5.48	OSF 1.50	Pass
7900.00	7900.00	0.00	0.00	7914.49	7899.74	17.90	-195.65	275.23	196.47	55.61	158.56	5.48	OSF 1.50	Pass
7910.00	7910.00	0.00	0.00	7924.06	7909.80	17.93	-195.66	275.24	196.48	55.67	158.53	5.47	OSF 1.50	Pass
7920.00	7920.00	0.00	0.00	7933.13	7919.87	17.96	-195.66	275.25	196.49	55.74	158.49	5.47	OSF 1.50	Pass
7930.00	7930.00	0.00	0.00	7942.20	7929.94	17.99	-195.67	275.25	196.49	55.81	158.46	5.46	OSF 1.50	Pass
7940.00	7940.00	0.00	0.00	7951.27	7940.01	18.01	-195.67	275.26	196.49	55.87	158.41	5.45	OSF 1.50	Pass
7950.00	7950.00	0.00	0.00	7960.33	7950.08	18.03	-195.66	275.27	196.49	55.94	158.37	5.45	OSF 1.50	Pass
7960.00	7960.00	0.00	0.00	7969.38	7960.12	18.05	-195.66	275.27	196.49	56.00	158.32	5.44	OSF 1.50	Pass
7970.00	7970.00	0.00	0.00	7978.43	7970.14	18.06	-195.65	275.27	196.48	56.07	158.27	5.43	OSF 1.50	Pass
7980.00	7980.00	0.00	0.00	7987.48	7980.15	18.07	-195.64	275.28	196.47	56.13	158.22	5.43	OSF 1.50	Pass
7990.00	7990.00	0.00	0.00	7996.52	7990.16	18.09	-195.63	275.28	196.46	56.20	158.17	5.42	OSF 1.50	Pass
8000.00	8000.00	0.00	0.00	8005.53	8000.18	18.10	-195.62	275.29	196.46	56.26	158.11	5.41	OSF 1.50	Pass
8010.00	8010.00	0.00	0.00	8014.54	8010.19	18.11	-195.61	275.29	196.45	56.33	158.06	5.40	OSF 1.50	Pass
8020.00	8020.00	0.00	0.00	8023.56	8020.20	18.12	-195.60	275.29	196.44	56.39	158.01	5.40	OSF 1.50	Pass
8030.00	8030.00	0.00	0.00	8032.57	8030.21	18.13	-195.59	275.30	196.43	56.46	157.95	5.39	OSF 1.50	Pass
8040.00	8040.00	0.00	0.00	8041.58	8040.23	18.14	-195.58	275.30	196.41	56.52	157.90	5.38	OSF 1.50	Pass
8050.00	8050.00	0.00	0.00	8050.59	8050.24	18.15	-195.56	275.30	196.40	56.59	157.84	5.38	OSF 1.50	Pass
8060.00	8060.00	0.00	0.00	8059.60	8060.22	18.16	-195.55	275.31	196.39	56.66	157.79	5.37	OSF 1.50	Pass
8070.00	8070.00	0.00	0.00	8068.61	8070.19	18.17	-195.54	275.31	196.38	56.72	157.73	5.36	OSF 1.50	Pass
8080.00	8080.00	0.00	0.00	8077.62	8080.17	18.19	-195.53	275.32	196.37	56.79	157.68	5.36	OSF 1.50	Pass
8090.00	8090.00	0.00	0.00	8086.63	8090.14	18.22	-195.52	275.32	196.36	56.85	157.63	5.35	OSF 1.50	Pass
8100.00	8100.00	0.00	0.00	8095.64	8100.11	18.25	-195.51	275.33	196.36	56.92	157.58	5.34	OSF 1.50	Pass
8110.00	8110.00	0.00	0.00	8104.65	8110.08	18.28	-195.50	275.34	196.35	56.98	157.53	5.34	OSF 1.50	Pass
8120.00	8120.00	0.00	0.00	8113.66	8120.06	18.32	-195.49	275.35	196.35	57.05	157.48	5.33	OSF 1.50	Pass
8130.00	8130.00	0.00	0.00	8122.67	8130.03	18.36	-195.49	275.37	196.35	57.12	157.44	5.32	OSF 1.50	Pass
8140.00	8140.00	0.00	0.00	8131.68	8140.00	18.41	-195.48	275.38	196.35	57.18	157.39	5.32	OSF 1.50	Pass
8150.00	8150.00	0.00	0.00	8140.69	8149.99	18.46	-195.48	275.40	196.35	57.25	157.35	5.31	OSF 1.50	Pass
8160.00	8160.00	0.00	0.00	8149.70	8160.02	18.52	-195.47	275.41	196.35	57.31	157.30	5.30	OSF 1.50	Pass
8170.00	8170.00	0.00	0.00	8158.71	8170.04	18.57	-195.46	275.43	196.34	57.38	157.26	5.30	OSF 1.50	Pass
8180.00	8180.00	0.00	0.00	8167.72	8180.07	18.61	-195.46	275.44	196.34	57.45	157.21	5.29	OSF 1.50	Pass
8190.00	8190.00	0.00	0.00	8176.73	8190.09	18.66	-195.45	275.45	196.34	57.51	157.16	5.		

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	C'fset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
8300.00	8300.00	0.00	0.00	8315.45	8300.19	19.08	-195.30	275.58	196.23	58.23	156.58	5.21	OSF 1.50	Pass
8310.00	8310.00	0.00	0.00	8325.44	8310.18	19.11	-195.29	275.59	196.22	58.30	156.52	5.21	OSF 1.50	Pass
8320.00	8320.00	0.00	0.00	8335.44	8320.18	19.15	-195.28	275.60	196.22	58.37	156.47	5.20	OSF 1.50	Pass
8330.00	8330.00	0.00	0.00	8345.43	8330.17	19.19	-195.27	275.61	196.21	58.43	156.42	5.19	OSF 1.50	Pass
8340.00	8340.00	0.00	0.00	8355.47	8340.21	19.22	-195.25	275.62	196.20	58.50	156.37	5.19	OSF 1.50	Pass
8350.00	8350.00	0.00	0.00	8365.53	8350.27	19.25	-195.24	275.63	196.18	58.56	156.31	5.18	OSF 1.50	Pass
8360.00	8360.00	0.00	0.00	8375.59	8360.33	19.28	-195.22	275.64	196.17	58.63	156.25	5.18	OSF 1.50	Pass
8370.00	8370.00	0.00	0.00	8385.65	8370.39	19.30	-195.20	275.65	196.15	58.69	156.19	5.17	OSF 1.50	Pass
8380.00	8380.00	0.00	0.00	8395.71	8380.45	19.31	-195.18	275.65	196.13	58.76	156.12	5.16	OSF 1.50	Pass
8390.00	8390.00	0.00	0.00	8405.77	8390.51	19.32	-195.15	275.65	196.11	58.83	156.05	5.16	OSF 1.50	Pass
8400.00	8400.00	0.00	0.00	8415.82	8400.56	19.32	-195.12	275.66	196.08	58.89	155.98	5.15	OSF 1.50	Pass
8410.00	8410.00	0.00	0.00	8425.88	8410.62	19.32	-195.09	275.66	196.05	58.96	155.91	5.14	OSF 1.50	Pass
8420.00	8420.00	0.00	0.00	8435.94	8420.68	19.32	-195.06	275.66	196.01	59.02	155.83	5.14	OSF 1.50	Pass
8430.00	8430.00	0.00	0.00	8445.99	8430.73	19.31	-195.02	275.65	195.98	59.09	155.75	5.13	OSF 1.50	Pass
8440.00	8440.00	0.00	0.00	8455.99	8440.73	19.29	-194.99	275.65	195.94	59.15	155.67	5.12	OSF 1.50	Pass
8450.00	8450.00	0.00	0.00	8465.99	8450.73	19.28	-194.95	275.65	195.90	59.22	155.59	5.11	OSF 1.50	Pass
8460.00	8460.00	0.00	0.00	8475.99	8460.73	19.28	-194.91	275.65	195.87	59.29	155.51	5.11	OSF 1.50	Pass
8470.00	8470.00	0.00	0.00	8485.99	8470.73	19.27	-194.88	275.65	195.83	59.35	155.43	5.10	OSF 1.50	Pass
8480.00	8480.00	0.00	0.00	8495.99	8480.73	19.27	-194.84	275.65	195.79	59.42	155.35	5.09	OSF 1.50	Pass
8490.00	8490.00	0.00	0.00	8505.99	8490.73	19.26	-194.80	275.65	195.75	59.48	155.27	5.09	OSF 1.50	Pass
8500.00	8500.00	0.00	0.00	8515.99	8500.73	19.26	-194.77	275.65	195.72	59.55	155.18	5.08	OSF 1.50	Pass
8510.00	8510.00	0.00	0.00	8525.99	8510.73	19.26	-194.73	275.65	195.68	59.62	155.10	5.07	OSF 1.50	Pass
8520.00	8520.00	0.00	0.00	8535.99	8520.73	19.27	-194.69	275.65	195.64	59.68	155.02	5.07	OSF 1.50	Pass
8530.00	8530.00	0.00	0.00	8545.99	8530.69	19.27	-194.65	275.65	195.61	59.75	154.94	5.06	OSF 1.50	Pass
8540.00	8540.00	0.00	0.00	8555.86	8540.60	19.28	-194.62	275.66	195.57	59.81	154.86	5.05	OSF 1.50	Pass
8550.00	8550.00	0.00	0.00	8565.77	8550.51	19.28	-194.59	275.66	195.54	59.88	154.79	5.05	OSF 1.50	Pass
8560.00	8560.00	0.00	0.00	8575.68	8560.42	19.28	-194.57	275.66	195.52	59.94	154.72	5.04	OSF 1.50	Pass
8570.00	8570.00	0.00	0.00	8585.59	8570.33	19.28	-194.55	275.66	195.50	60.01	154.66	5.03	OSF 1.50	Pass
8580.00	8580.00	0.00	0.00	8595.50	8580.24	19.27	-194.53	275.66	195.49	60.08	154.60	5.03	OSF 1.50	Pass
8590.00	8590.00	0.00	0.00	8605.40	8590.14	19.27	-194.53	275.66	195.48	60.14	154.55	5.02	OSF 1.50	Pass
8600.00	8600.00	0.00	0.00	8615.31	8600.05	19.26	-194.52	275.65	195.47	60.21	154.50	5.02	OSF 1.50	Pass
8610.00	8610.00	0.00	0.00	8625.22	8609.96	19.25	-194.52	275.65	195.47	60.27	154.46	5.01	OSF 1.50	Pass
8620.00	8620.00	0.00	0.00	8635.13	8619.87	19.24	-194.53	275.65	195.48	60.34	154.42	5.00	OSF 1.50	Pass
8630.00	8630.00	0.00	0.00	8645.18	8629.92	19.22	-194.53	275.64	195.48	60.41	154.38	5.00	OSF 1.50	Warning
8640.00	8640.00	0.00	0.00	8655.26	8640.00	19.21	-194.54	275.64	195.48	60.47	154.34	4.99	OSF 1.50	Warning
8650.00	8650.00	0.00	0.00	8665.35	8650.09	19.18	-194.54	275.63	195.48	60.54	154.29	4.99	OSF 1.50	Warning
8660.00	8660.00	0.00	0.00	8675.43	8660.17	19.16	-194.53	275.62	195.48	60.60	154.24	4.98	OSF 1.50	Warning
8670.00	8670.00	0.00	0.00	8685.51	8670.25	19.13	-194.53	275.62	195.48	60.67	154.19	4.98	OSF 1.50	Warning
8680.00	8680.00	0.00	0.00	8695.59	8680.33	19.10	-194.51	275.61	195.45	60.73	154.13	4.97	OSF 1.50	Warning
8690.00	8690.00	0.00	0.00	8705.68	8690.42	19.07	-194.50	275.60	195.43	60.80	154.06	4.96	OSF 1.50	Warning
8700.00	8700.00	0.00	0.00	8715.76	8700.50	19.03	-194.48	275.59	195.41	60.87	154.00	4.96	OSF 1.50	Warning
8710.00	8710.00	0.00	0.00	8725.84	8710.58	18.98	-194.45	275.58	195.38	60.93	153.93	4.95	OSF 1.50	Warning
8720.00	8720.00	0.00	0.00	8735.90	8720.63	18.94	-194.43	275.56	195.35	61.00	153.85	4.95	OSF 1.50	Warning
8730.00	8730.00	0.00	0.00	8745.87	8730.61	18.89	-194.40	275.55	195.32	61.06	153.77	4.94	OSF 1.50	Warning
8740.00	8740.00	0.00	0.00	8755.85	8740.59	18.85	-194.37	275.54	195.29	61.13	153.70	4.93	OSF 1.50	Warning
8750.00	8750.00	0.00	0.00	8765.83	8750.57	18.81	-194.35	275.53	195.26	61.20	153.63	4.93	OSF 1.50	Warning
8760.00	8760.00	0.00	0.00	8775.81	8760.55	18.77	-194.32	275.52	195.23	61.26	153.55	4.92	OSF 1.50	Warning
8770.00	8770.00	0.00	0.00	8785.79	8770.52	18.73	-194.30	275.51	195.20	61.33	153.48	4.91	OSF 1.50	Warning
8780.00	8780.00	0.00	0.00	8795.76	8780.50	18.69	-194.28	275.50	195.17	61.39	153.41	4.91	OSF 1.50	Warning
8790.00	8790.00	0.00	0.00	8805.74	8790.48	18.65	-194.25	275.49	195.15	61.46	153.34	4.90	OSF 1.50	Warning
8800.00	8800.00	0.00	0.00	8815.72	8800.46	18.62	-194.23	275.48	195.12	61.52	153.27	4.90	OSF 1.50	Warning
8810.00	8810.00	0.00	0.00	8825.70	8810.44	18.58	-194.21	275.47	195.10	61.59	153.21	4.89	OSF 1.50	Warning
8820.00	8820.00	0.00	0.00	8835.64	8820.38	18.55	-194.20	275.46	195.08	61.66	153.14	4.88	OSF 1.50	Warning
8830.00	8830.00	0.00	0.00	8845.58	8830.32	18.53	-194.18	275.45	195.06	61.72	153.08	4.88	OSF 1.50	Warning
8840.00	8840.00	0.00	0.00	8855.52	8840.25	18.51	-194.17	275.44	195.05	61.79	153.02	4.87	OSF 1.50	Warning
8850.00	8850.00	0.00	0.00	8865.46	8850.19	18.49	-194.16	275.44	195.04	61.85	152.97	4.87	OSF 1.50	Warning
8860.00	8860.00	0.00	0.00	8875.40	8860.13	18.48	-194.15	275.44	195.03	61.92	152.91	4.86	OSF 1.50	Warning
8870.00	8870.00	0.00	0.00	8885.33	8870.07	18.47	-194.15	275.44	195.02	61.99	152.87	4.85	OSF 1.50	Warning
8880.00	8880.00	0.00	0.00	8895.27	8880.01	18.47	-194.14	275.44	195.02	62.05	152.82	4.85	OSF 1.50	Warning
8890.00	8890.00	0.00	0.00	8905.21	8890.95	18.48	-194.14	275.44	195.02	62.12	152.78	4.84	OSF 1.50	Warning
8900.00	8900.00	0.00	0.00	8915.15	8899.89	18.48	-194.15	275.44	195.03	62.18	152.74	4.84	OSF 1.50	Warning
8910.00	8910.00	0.00	0.00	8925.08	8909.82	18.50	-194.15	275.44	195.03	62.25	152.70	4.83	OSF 1.50	Warning
8920.00	8920.00	0.00	0.00	8934.98	8919.72	18.52	-194.16	275.45	195.05	62.32	152.67	4.83	OSF 1.50	Warning
8930.00	8930.00	0.00	0.00	8944.88	8929.62	18.54	-194.18	275.45	195.06	62.38	152.64	4.82	OSF 1.50	Warning
8940.00	8940.00	0.00	0.00	8954.78	8939.52	18.57	-194.20	275.46	195.08	62.45	152.62	4.82	OSF 1.50	Warning
8950.00	8950.00	0.00	0.00	8964.68	8949.42	18.61	-194.22	275.47	195.11	62.52	152.60	4.81	OSF 1.50	Warning
8960.00	8960.00	0.00	0.00	8974.58	8959.32	18.65	-194.25	275.48	195.14	62.58	152.59	4.81	OSF 1.50	Warning
8970.00	8970.00	0.00	0.00	8984.49	8969.22	18.70	-194.28	275.50	195.18	62.65	152.58	4.80	OSF 1.50	Warning
8980.00	8980.00	0.00	0.00	8994.39	8979.12	18.75	-194.32	275.51	195.22	62.72	152.58	4.80	OSF 1.50	Warning
8990.00	8990.00	0.00	0.00	9004.29	8989.02	18.81	-194.36	275.53	195.27	62.78	152.58	4.80	OSF 1.50	Warning
9000.00	9000.00	0.00	0.00	9014.19	8998.93	18.87	-194.41	275.55	195.32	62.85	152.59	4.79	OSF 1.50	Warning
9010.00	9010.00	0.00	0.00	9024.23	9008.86	18.95	-194.45	275.58	195.38	62.92	152.60	4.79	OSF 1.50	Warning
9020.00	9020.00	0.00	0.00	9034.26	9018.80	19.03	-194.50	275.59	195.43	62.99	152.61	4.78	OSF 1.50	Warning
9030.00	9030.00	0.00	0.00	9044.30	9028.74	19.11	-194.54	275.61	195.48	63.05	152.61	4.78	OSF 1.50	Warning
9040.00	9040.00	0.00	0.00	9054.34	9038.67	19.20	-194.58	275.64	195.53	63.12	152.6			

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Cl-Cl Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
9150.00	9150.00	0.00	0.00	9164.49	9149.22	20.64	-194.88	276.05	195.97	63.86	152.56	4.73	OSF 1.50	Warning
9160.00	9160.00	0.00	0.00	9174.48	9159.21	20.80	-194.90	276.09	196.01	63.93	152.56	4.73	OSF 1.50	Warning
9170.00	9170.00	0.00	0.00	9184.47	9169.19	20.97	-194.92	276.14	196.05	64.00	152.55	4.72	OSF 1.50	Warning
9180.00	9180.00	0.00	0.00	9194.46	9179.18	21.13	-194.95	276.19	196.09	64.06	152.55	4.72	OSF 1.50	Warning
9190.00	9190.00	0.00	0.00	9204.45	9189.16	21.31	-194.97	276.24	196.13	64.13	152.55	4.71	OSF 1.50	Warning
9200.00	9200.00	0.00	0.00	9214.46	9199.18	21.48	-195.00	276.29	196.18	64.20	152.55	4.71	OSF 1.50	Warning
9210.00	9210.00	0.00	0.00	9224.48	9209.20	21.65	-195.02	276.33	196.22	64.26	152.54	4.70	OSF 1.50	Warning
9220.00	9220.00	0.00	0.00	9234.51	9219.22	21.81	-195.04	276.38	196.26	64.33	152.54	4.70	OSF 1.50	Warning
9230.00	9230.00	0.00	0.00	9244.53	9229.24	21.97	-195.06	276.43	196.30	64.40	152.53	4.70	OSF 1.50	Warning
9240.00	9240.00	0.00	0.00	9254.55	9239.26	22.13	-195.08	276.47	196.34	64.46	152.53	4.69	OSF 1.50	Warning
9250.00	9250.00	0.00	0.00	9264.57	9249.28	22.28	-195.10	276.52	196.37	64.53	152.52	4.69	OSF 1.50	Warning
9260.00	9260.00	0.00	0.00	9274.59	9259.30	22.43	-195.12	276.56	196.41	64.59	152.51	4.68	OSF 1.50	Warning
9270.00	9270.00	0.00	0.00	9284.61	9269.32	22.58	-195.14	276.60	196.44	64.66	152.51	4.68	OSF 1.50	Warning
9280.00	9280.00	0.00	0.00	9294.63	9279.34	22.72	-195.16	276.64	196.48	64.72	152.50	4.68	OSF 1.50	Warning
9290.00	9290.00	0.00	0.00	9304.66	9289.37	22.85	-195.18	276.68	196.51	64.79	152.49	4.67	OSF 1.50	Warning
9300.00	9300.00	0.00	0.00	9314.69	9299.39	22.99	-195.19	276.72	196.54	64.85	152.47	4.67	OSF 1.50	Warning
9310.00	9310.00	0.00	0.00	9324.72	9309.42	23.12	-195.21	276.75	196.57	64.92	152.46	4.66	OSF 1.50	Warning
9320.00	9320.00	0.00	0.00	9334.75	9319.45	23.24	-195.22	276.79	196.60	64.98	152.45	4.66	OSF 1.50	Warning
9323.00	9323.00	0.00	0.00	9337.76	9322.46	23.28	-195.23	276.80	196.61	65.00	152.44	4.66	OSF 1.50	Warning
9330.00	9330.00	-0.05	0.00	9344.77	9329.48	23.37	-195.23	276.84	196.63	65.00	152.47	4.66	OSF 1.50	Warning
9340.00	9340.00	-0.30	0.00	9354.80	9339.50	23.49	-195.25	276.94	196.69	65.00	152.53	4.66	OSF 1.50	Warning
9350.00	9349.99	-0.76	0.00	9364.81	9349.51	23.61	-195.26	277.10	196.77	64.99	152.61	4.66	OSF 1.50	Warning
9360.00	9359.96	-1.43	-0.01	9374.81	9359.51	23.72	-195.27	277.31	196.87	64.99	152.71	4.67	OSF 1.50	Warning
9370.00	9369.92	-2.31	-0.01	9384.79	9369.49	23.84	-195.27	277.58	197.00	64.99	152.85	4.67	OSF 1.50	Warning
9380.00	9379.86	-3.40	-0.02	9394.75	9379.45	23.94	-195.28	277.90	197.17	64.98	153.01	4.67	OSF 1.50	Warning
9390.00	9389.78	-4.69	-0.03	9404.66	9389.36	24.05	-195.29	278.28	197.36	64.98	153.21	4.68	OSF 1.50	Warning
9400.00	9399.67	-6.19	-0.04	9414.54	9399.24	24.16	-195.29	278.71	197.60	64.98	153.45	4.68	OSF 1.50	Warning
9410.00	9409.52	-7.90	-0.04	9424.38	9409.08	24.28	-195.29	278.19	197.88	64.91	153.77	4.70	OSF 1.50	Warning
9420.00	9419.33	-9.82	-0.06	9434.18	9418.88	24.40	-195.30	278.72	198.22	64.84	154.15	4.71	OSF 1.50	Warning
9430.00	9429.11	-11.94	-0.07	9443.94	9428.64	24.51	-195.30	280.30	198.60	64.78	154.59	4.72	OSF 1.50	Warning
9440.00	9438.83	-14.26	-0.08	9453.64	9438.34	24.64	-195.30	280.92	199.06	64.71	155.08	4.74	OSF 1.50	Warning
9450.00	9448.51	-16.79	-0.09	9463.29	9447.99	24.76	-195.30	281.58	199.58	64.64	155.65	4.76	OSF 1.50	Warning
9460.00	9458.13	-19.52	-0.11	9472.88	9457.58	24.88	-195.30	282.28	200.17	64.57	156.29	4.78	OSF 1.50	Warning
9470.00	9467.69	-22.45	-0.13	9482.41	9467.10	25.01	-195.29	283.01	200.86	64.50	157.02	4.80	OSF 1.50	Warning
9480.00	9477.19	-25.58	-0.14	9491.88	9476.57	25.14	-195.29	283.78	201.63	64.43	157.84	4.82	OSF 1.50	Warning
9490.00	9486.62	-28.90	-0.16	9501.37	9486.06	25.27	-195.28	284.58	202.50	64.36	158.76	4.85	OSF 1.50	Warning
9500.00	9495.98	-32.43	-0.18	9510.78	9495.47	25.40	-195.27	285.41	203.48	64.29	159.79	4.88	OSF 1.50	Warning
9510.00	9505.26	-36.15	-0.20	9520.11	9504.80	25.53	-195.26	286.26	204.57	64.22	160.92	4.91	OSF 1.50	Warning
9520.00	9514.46	-40.06	-0.23	9529.36	9514.05	25.65	-195.24	287.13	205.78	64.16	162.18	4.95	OSF 1.50	Warning
9530.00	9523.58	-44.16	-0.25	9538.53	9523.21	25.77	-195.21	288.02	207.13	64.09	163.57	4.98	OSF 1.50	Warning
9540.00	9532.61	-48.46	-0.27	9547.60	9532.29	25.89	-195.19	288.91	208.61	64.02	165.10	5.03	OSF 1.50	Pass
9550.00	9541.55	-52.94	-0.30	9556.58	9541.27	26.01	-195.15	289.81	210.24	63.95	166.77	5.07	OSF 1.50	Pass
9560.00	9550.39	-57.61	-0.33	9565.46	9550.14	26.12	-195.12	290.71	212.03	63.88	168.60	5.12	OSF 1.50	Pass
9570.00	9559.13	-62.46	-0.35	9574.24	9558.92	26.24	-195.08	291.60	213.98	63.82	170.60	5.17	OSF 1.50	Pass
9580.00	9567.77	-67.50	-0.38	9582.91	9567.59	26.35	-195.03	292.50	216.09	63.75	172.76	5.23	OSF 1.50	Pass
9590.00	9576.31	-72.71	-0.41	9591.42	9576.10	26.45	-194.99	293.37	218.39	63.68	175.11	5.29	OSF 1.50	Pass
9600.00	9584.73	-78.11	-0.44	9599.75	9584.44	26.56	-194.94	294.23	220.88	63.61	177.64	5.36	OSF 1.50	Pass
9610.00	9593.03	-83.68	-0.47	9607.97	9592.65	26.66	-194.90	295.07	223.56	63.55	180.35	5.43	OSF 1.50	Pass
9620.00	9601.22	-89.42	-0.51	9616.07	9600.75	26.77	-194.86	295.88	226.43	63.49	183.27	5.51	OSF 1.50	Pass
9630.00	9609.29	-95.33	-0.54	9624.04	9608.72	26.87	-194.82	296.68	229.51	63.43	186.39	5.59	OSF 1.50	Pass
9640.00	9617.23	-101.40	-0.57	9631.89	9616.57	26.97	-194.78	297.45	232.80	63.38	189.71	5.67	OSF 1.50	Pass
9650.00	9625.04	-107.65	-0.61	9639.60	9624.28	27.07	-194.74	298.18	236.30	63.32	193.25	5.77	OSF 1.50	Pass
9660.00	9632.72	-114.05	-0.64	9647.18	9631.86	27.17	-194.70	298.89	240.00	63.26	196.99	5.86	OSF 1.50	Pass
9670.00	9640.26	-120.62	-0.68	9654.62	9639.30	27.26	-194.66	299.57	243.92	63.21	200.95	5.97	OSF 1.50	Pass
9680.00	9647.67	-127.34	-0.72	9661.92	9646.60	27.36	-194.63	300.20	248.06	63.15	205.12	6.07	OSF 1.50	Pass
9690.00	9654.93	-134.21	-0.76	9669.08	9653.75	27.45	-194.59	300.80	252.41	63.10	209.51	6.19	OSF 1.50	Pass
9700.00	9662.04	-141.24	-0.80	9676.09	9660.76	27.54	-194.56	301.36	256.97	63.05	214.10	6.30	OSF 1.50	Pass
9710.00	9669.01	-148.41	-0.84	9682.93	9667.61	27.63	-194.53	301.88	261.74	63.01	218.90	6.43	OSF 1.50	Pass
9720.00	9675.83	-155.73	-0.88	9689.60	9674.27	27.72	-194.50	302.35	266.73	62.97	223.91	6.55	OSF 1.50	Pass
9730.00	9682.49	-163.19	-0.92	9696.11	9680.78	27.80	-194.47	302.77	271.92	62.93	229.13	6.69	OSF 1.50	Pass
9740.00	9688.99	-170.78	-0.97	9702.46	9687.14	27.88	-194.45	303.14	277.32	62.89	234.56	6.83	OSF 1.50	Pass
9750.00	9695.33	-178.51	-1.01	9708.66	9693.33	27.96	-194.43	303.46	282.92	62.86	240.19	6.97	OSF 1.50	Pass
9760.00	9701.51	-186.37	-1.05	9714.69	9699.36	28.04	-194.41	303.74	288.73	62.82	246.01	7.12	OSF 1.50	Pass
9770.00	9707.53	-194.36	-1.10	9720.55	9705.22	28.11	-194.39	303.96	294.73	62.79	252.04	7.27	OSF 1.50	Pass
9780.00	9713.37	-202.48	-1.14	9726.25	9710.92	28.18	-194.38	304.12	300.92	62.75	258.25	7.43	OSF 1.50	Pass
9790.00	9719.05	-210.71	-1.19	9731.78	9716.45	28.25	-194.37	304.23	307.29	62.72	264.65	7.59	OSF 1.50	Pass
9800.00	9724.55	-219.06	-1.24	9737.13	9721.80	28.32	-194.36	304.28	313.85	62.69	271.22	7.76	OSF 1.50	Pass
9810.00	9729.87	-227.53	-1.29	9742.31	9726.98	28.39	-194.35	304.27	320.58	62.67	277.97	7.93	OSF 1.50	Pass
9820.00	9735.02	-236.10	-1.34	9747.31	9731.98	28.45	-194.34	304.20	327.48	62.65	284.89	8.10	OSF 1.50	Pass
9830.00	9739.98	-244.78	-1.38	9752.13	9736.80	28.51	-194.33	304.06	334.55	62.63	291.97	8.28	OSF 1.50	Pass
9840.00	9744.76	-253.56	-1.43	9756.77	9741.44	28.56	-194.33	303.85	341.78	62.61	299.21	8.47	OSF 1.50	Pass
9850.00	9749.36	-262.44	-1.48	9761.23	9745.89	28.62	-194.33	303.57	349.17	62.60	306.60	8.65	OSF 1.50	Pass
9860.00	9753.77	-271.42	-1.53	9765.49	9750.16	28.67	-194.32	303.22	356.70	62.58	314.15	8.84	OSF 1.50	Pass
9870.00	9757.99	-280.48	-1.59	9769.57	9754.24	28.72	-194.32	302.79	364.38	62.56	321.83	9.04	OSF 1.50	Pass
9880.00	9762.03	-289.63	-1.64	9773.47	9758.13									

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
9990.00	9793.33	-394.83	-2.23	9804.31	9788.98	29.13	-194.31	289.85	465.46	62.47	422.98	11.58	OSF 1.50	Pass
10000.00	9794.86	-404.70	-2.29	9805.89	9790.55	29.14	-194.31	287.92	474.46	62.46	431.98	11.81	OSF 1.50	Pass
10010.00	9796.38	-414.59	-2.34	9807.25	9791.91	29.16	-194.31	285.82	483.51	62.47	441.04	12.03	OSF 1.50	Pass
10020.00	9797.60	-424.52	-2.40	9808.39	9793.06	29.17	-194.30	283.56	492.63	62.47	450.15	12.26	OSF 1.50	Pass
10030.00	9798.60	-434.47	-2.46	9809.33	9793.99	29.18	-194.30	281.13	501.79	62.47	459.31	12.49	OSF 1.50	Pass
10040.00	9799.40	-444.44	-2.51	9810.04	9794.71	29.19	-194.30	278.54	511.00	62.48	468.52	12.72	OSF 1.50	Pass
10050.00	9799.99	-454.42	-2.57	9810.55	9795.21	29.19	-194.30	275.79	520.25	62.48	477.77	12.95	OSF 1.50	Pass
10060.00	9800.47	-464.41	-2.63	9810.93	9795.60	29.20	-194.30	275.84	529.54	62.48	487.05	13.18	OSF 1.50	Pass
10070.00	9800.95	-474.39	-2.68	9811.32	9795.99	29.20	-194.30	275.95	538.84	62.48	496.35	13.41	OSF 1.50	Pass
10080.00	9801.43	-484.38	-2.74	9811.71	9796.38	29.21	-194.30	276.06	548.17	62.49	505.68	13.64	OSF 1.50	Pass
10090.00	9801.91	-494.37	-2.80	9812.10	9796.77	29.21	-194.30	276.18	557.53	62.49	515.04	13.88	OSF 1.50	Pass
10100.00	9802.39	-504.36	-2.85	9812.49	9797.16	29.21	-194.30	276.29	566.90	62.49	524.41	14.11	OSF 1.50	Pass
10110.00	9802.87	-514.35	-2.91	9812.89	9797.55	29.22	-194.30	276.40	576.30	62.49	533.81	14.35	OSF 1.50	Pass
10120.00	9803.35	-524.34	-2.97	9813.28	9797.94	29.22	-194.30	276.52	585.72	62.50	543.22	14.58	OSF 1.50	Pass
10130.00	9803.83	-534.32	-3.02	9813.67	9798.33	29.23	-194.30	276.63	595.15	62.50	552.65	14.82	OSF 1.50	Pass
10140.00	9804.31	-544.31	-3.08	9814.06	9798.73	29.23	-194.30	276.75	604.61	62.50	562.11	15.05	OSF 1.50	Pass
10150.00	9804.79	-554.30	-3.13	9814.45	9799.12	29.23	-194.30	276.86	614.08	62.50	571.57	15.29	OSF 1.50	Pass
10160.00	9805.27	-564.29	-3.19	9814.85	9799.51	29.24	-194.29	276.98	623.56	62.50	581.06	15.53	OSF 1.50	Pass
10170.00	9805.75	-574.28	-3.25	9815.24	9799.91	29.24	-194.29	277.09	633.06	62.50	590.56	15.76	OSF 1.50	Pass
10180.00	9806.23	-584.27	-3.30	9815.64	9800.30	29.25	-194.29	277.20	642.58	62.50	600.08	16.00	OSF 1.50	Pass
10190.00	9806.71	-594.25	-3.36	9816.03	9800.69	29.25	-194.29	277.32	652.11	62.51	609.61	16.24	OSF 1.50	Pass
10200.00	9807.19	-604.24	-3.42	9816.43	9801.09	29.25	-194.29	277.43	661.66	62.51	619.15	16.48	OSF 1.50	Pass
10210.00	9807.67	-614.23	-3.47	9816.82	9801.49	29.26	-194.29	277.55	671.21	62.51	628.71	16.72	OSF 1.50	Pass
10220.00	9808.15	-624.22	-3.53	9817.22	9801.88	29.26	-194.29	277.66	680.78	62.51	638.28	16.95	OSF 1.50	Pass
10230.00	9808.63	-634.21	-3.59	9817.61	9802.28	29.27	-194.29	277.78	690.37	62.51	647.86	17.19	OSF 1.50	Pass
10240.00	9809.11	-644.20	-3.64	9818.01	9802.67	29.27	-194.29	277.89	699.96	62.51	657.45	17.43	OSF 1.50	Pass
10250.00	9809.59	-654.18	-3.70	9818.41	9803.07	29.27	-194.29	278.01	709.57	62.52	667.05	17.67	OSF 1.50	Pass
10260.00	9810.06	-664.17	-3.76	9818.80	9803.47	29.28	-194.29	278.12	719.18	62.52	676.67	17.91	OSF 1.50	Pass
10270.00	9810.54	-674.16	-3.81	9819.20	9803.87	29.28	-194.29	278.24	728.81	62.52	686.29	18.15	OSF 1.50	Pass
10280.00	9811.02	-684.15	-3.87	9819.60	9804.27	29.29	-194.29	278.35	738.44	62.52	695.93	18.39	OSF 1.50	Pass
10290.00	9811.50	-694.14	-3.92	9820.00	9804.66	29.29	-194.29	278.47	748.09	62.52	705.57	18.63	OSF 1.50	Pass
10300.00	9811.98	-704.13	-3.98	9820.40	9805.06	29.29	-194.28	278.58	757.74	62.52	715.23	18.87	OSF 1.50	Pass
10310.00	9812.46	-714.11	-4.04	9820.80	9805.46	29.30	-194.28	278.70	767.40	62.52	724.89	19.12	OSF 1.50	Pass
10320.00	9812.94	-724.10	-4.09	9821.20	9805.86	29.30	-194.28	278.81	777.07	62.52	734.56	19.36	OSF 1.50	Pass
10330.00	9813.42	-734.09	-4.15	9821.60	9806.26	29.31	-194.28	278.93	786.75	62.53	744.23	19.60	OSF 1.50	Pass
10340.00	9813.90	-744.08	-4.21	9822.00	9806.67	29.31	-194.28	279.04	796.44	62.53	753.92	19.84	OSF 1.50	Pass
10350.00	9814.38	-754.07	-4.26	9822.40	9807.07	29.31	-194.28	279.16	806.13	62.53	763.61	20.08	OSF 1.50	Pass
10360.00	9814.86	-764.06	-4.32	9822.81	9807.47	29.32	-194.28	279.27	815.83	62.53	773.31	20.32	OSF 1.50	Pass
10370.00	9815.34	-774.04	-4.38	9823.21	9807.87	29.32	-194.28	279.39	825.54	62.53	783.02	20.57	OSF 1.50	Pass
10380.00	9815.82	-784.03	-4.43	9823.61	9808.27	29.33	-194.28	279.51	835.26	62.53	792.73	20.81	OSF 1.50	Pass
10390.00	9816.30	-794.02	-4.49	9824.01	9808.68	29.33	-194.28	279.62	844.98	62.53	802.46	21.05	OSF 1.50	Pass
10400.00	9816.78	-804.01	-4.55	9824.42	9809.08	29.33	-194.28	279.74	854.70	62.53	812.18	21.29	OSF 1.50	Pass
10410.00	9817.26	-814.00	-4.60	9824.82	9809.49	29.34	-194.28	279.85	864.44	62.53	821.91	21.54	OSF 1.50	Pass
10420.00	9817.74	-824.99	-4.66	9825.23	9809.89	29.34	-194.28	279.97	874.18	62.54	831.65	21.78	OSF 1.50	Pass
10430.00	9818.22	-834.97	-4.71	9825.63	9810.30	29.35	-194.27	280.08	883.92	62.54	841.40	22.02	OSF 1.50	Pass
10440.00	9818.70	-844.96	-4.77	9826.04	9810.70	29.35	-194.27	280.20	893.67	62.54	851.15	22.27	OSF 1.50	Pass
10450.00	9819.18	-854.95	-4.83	9826.44	9811.11	29.35	-194.27	280.32	903.43	62.54	860.90	22.51	OSF 1.50	Pass
10460.00	9819.66	-864.94	-4.88	9826.85	9811.51	29.36	-194.27	280.43	913.19	62.54	870.66	22.75	OSF 1.50	Pass
10470.00	9820.14	-874.93	-4.94	9827.26	9811.92	29.36	-194.27	280.55	922.95	62.54	880.43	23.00	OSF 1.50	Pass
10480.00	9820.62	-884.92	-5.00	9827.66	9812.33	29.37	-194.27	280.67	932.72	62.54	890.20	23.24	OSF 1.50	Pass
10490.00	9821.10	-894.90	-5.05	9828.07	9812.74	29.37	-194.27	280.78	942.50	62.54	899.97	23.48	OSF 1.50	Pass
10500.00	9821.58	-904.89	-5.11	9828.48	9813.14	29.37	-194.27	280.90	952.28	62.54	909.75	23.73	OSF 1.50	Pass
10510.00	9822.06	-914.88	-5.17	9828.89	9813.55	29.38	-194.27	281.01	962.06	62.54	919.54	23.97	OSF 1.50	Pass
10520.00	9822.54	-924.87	-5.22	9829.30	9813.96	29.38	-194.27	281.13	971.85	62.54	929.32	24.22	OSF 1.50	Pass
10530.00	9823.02	-934.86	-5.28	9829.71	9814.37	29.38	-194.27	281.25	981.64	62.54	939.12	24.46	OSF 1.50	Pass
10540.00	9823.50	-944.85	-5.34	9830.12	9814.78	29.39	-194.26	281.36	991.44	62.54	948.91	24.71	OSF 1.50	Pass
10550.00	9823.98	-954.83	-5.39	9830.53	9815.19	29.39	-194.26	281.48	1001.24	62.54	958.71	24.95	OSF 1.50	Pass
10560.00	9824.46	-964.82	-5.45	9830.94	9815.60	29.40	-194.26	281.60	1011.05	62.54	968.52	25.20	OSF 1.50	Pass
10570.00	9824.94	-974.81	-5.50	9831.35	9816.02	29.40	-194.26	281.71	1020.85	62.54	978.32	25.44	OSF 1.50	Pass
10580.00	9825.42	-984.80	-5.56	9831.76	9816.43	29.40	-194.26	281.83	1030.66	62.55	988.13	25.68	OSF 1.50	Pass
10590.00	9825.90	-994.79	-5.62	9832.18	9816.84	29.41	-194.26	281.95	1040.48	62.55	997.95	25.93	OSF 1.50	Pass
10600.00	9826.38	-1004.78	-5.67	9832.59	9817.25	29.41	-194.26	282.06	1050.30	62.55	1007.77	26.17	OSF 1.50	Pass
10610.00	9826.86	-1014.77	-5.73	9833.00	9817.67	29.42	-194.26	282.18	1060.12	62.55	1017.59	26.42	OSF 1.50	Pass
10620.00	9827.34	-1024.75	-5.79	9833.42	9818.08	29.42	-194.26	282.30	1069.94	62.55	1027.41	26.67	OSF 1.50	Pass
10630.00	9827.81	-1034.74	-5.84	9833.83	9818.49	29.42	-194.26	282.41	1079.77	62.55	1037.24	26.91	OSF 1.50	Pass
10640.00	9828.29	-1044.73	-5.90	9834.25	9818.91	29.43	-194.25	282.53	1089.60	62.55	1047.07	27.16	OSF 1.50	Pass
10650.00	9828.77	-1054.72	-5.96	9834.66	9819.32	29.43	-194.25	282.65	1099.43	62.55	1056.90	27.40	OSF 1.50	Pass
10660.00	9829.25	-1064.71	-6.01	9835.08	9819.74	29.43	-194.25	282.76	1109.27	62.55	1066.74	27.65	OSF 1.50	Pass
10670.00	9829.73	-1074.69	-6.07	9835.49	9820.16	29.44	-194.25	282.88	1119.11	62.55	1076.58	27.89	OSF 1.50	Pass
10680.00	9830.21	-1084.68	-6.13	9835.91	9820.57	29.44	-194.25	283.00	1128.95	62.55	1086.42	28.14	OSF 1.50	Pass
10690.00	9830.69	-1094.67	-6.18	9836.33	9820.99	29.45	-194.25	283.11	1138.80	62.55	1096.26	28.38	OSF 1.50	Pass
10700.00	9831.17	-1104.66	-6.24	9836.74	9821.41	29.45	-194.25	283.23	1148.64	62.55	1106.11	28.63	OSF 1.50	Pass
10710.00	9831.65	-1114.65	-6.29	9837.16	9821.83	29.45	-194.25	283.35	1158.49	62.55	1115.			

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
10840.00	9837.89	-1243.50	-7.03	12063.04	11096.45	-1218.82	-230.27	350.26	1278.45	44.32	1248.07	45.77	OSF 1.50	Pass
10850.00	9838.37	-1253.48	-7.08	12073.31	11096.73	-1229.84	-229.84	350.28	1278.16	44.57	1247.81	45.48	OSF 1.50	Pass
10860.00	9838.85	-1263.47	-7.14	12083.57	11097.00	-1239.32	-229.40	350.30	1277.86	44.82	1247.15	45.20	OSF 1.50	Pass
10870.00	9839.33	-1273.46	-7.20	12093.84	11097.28	-1249.57	-228.95	350.32	1277.57	45.07	1246.69	44.93	OSF 1.50	Pass
10880.00	9839.81	-1283.45	-7.25	12104.10	11097.55	-1259.82	-228.48	350.34	1277.27	45.32	1246.22	44.65	OSF 1.50	Pass
10890.00	9840.29	-1293.44	-7.31	12115.62	11097.86	-1271.32	-227.94	350.36	1276.97	45.60	1245.74	44.38	OSF 1.50	Pass
10900.00	9840.77	-1303.43	-7.37	12128.29	11098.17	-1283.97	-227.38	350.39	1276.65	45.89	1245.23	44.05	OSF 1.50	Pass
10910.00	9841.25	-1313.41	-7.42	12140.96	11098.46	-1296.63	-226.78	350.42	1276.31	46.18	1244.69	43.74	OSF 1.50	Pass
10920.00	9841.73	-1323.40	-7.48	12153.62	11098.71	-1309.28	-226.21	350.44	1275.95	46.48	1244.13	43.44	OSF 1.50	Pass
10930.00	9842.21	-1333.39	-7.53	12166.29	11098.94	-1321.93	-225.65	350.47	1275.57	46.77	1243.56	43.14	OSF 1.50	Pass
10940.00	9842.69	-1343.38	-7.59	12178.95	11099.13	-1334.58	-225.09	350.49	1275.17	47.07	1242.96	42.84	OSF 1.50	Pass
10950.00	9843.17	-1353.37	-7.65	12191.62	11099.30	-1347.23	-224.54	350.52	1274.74	47.36	1242.34	42.54	OSF 1.50	Pass
10960.00	9843.64	-1363.36	-7.70	12204.28	11099.45	-1359.88	-224.00	350.54	1274.30	47.66	1241.69	42.25	OSF 1.50	Pass
10970.00	9844.12	-1373.34	-7.76	12216.09	11099.56	-1371.68	-223.51	350.56	1273.84	47.95	1241.04	41.96	OSF 1.50	Pass
10980.00	9844.60	-1383.33	-7.82	12227.85	11099.65	-1383.42	-223.02	350.58	1273.36	48.23	1240.37	41.68	OSF 1.50	Pass
10990.00	9845.08	-1393.32	-7.87	12239.60	11099.72	-1395.17	-222.53	350.60	1272.87	48.52	1239.69	41.41	OSF 1.50	Pass
11000.00	9845.56	-1403.31	-7.93	12251.36	11099.78	-1406.92	-222.06	350.62	1272.37	48.81	1239.00	41.13	OSF 1.50	Pass
11010.00	9846.04	-1413.30	-7.99	12263.11	11099.81	-1418.66	-221.59	350.64	1271.85	49.10	1238.28	40.86	OSF 1.50	Pass
11020.00	9846.52	-1423.29	-8.04	12274.87	11099.83	-1430.41	-221.13	350.66	1271.32	49.39	1237.56	40.59	OSF 1.50	Pass
11030.00	9847.00	-1433.27	-8.10	12286.62	11099.84	-1442.15	-220.67	350.68	1270.77	49.68	1236.82	40.33	OSF 1.50	Pass
11040.00	9847.48	-1443.26	-8.15	12298.37	11099.82	-1453.90	-220.22	350.70	1270.21	49.97	1236.07	40.06	OSF 1.50	Pass
11050.00	9847.96	-1453.25	-8.21	12306.01	11099.81	-1465.62	-219.73	350.71	1269.65	50.19	1235.36	39.85	OSF 1.50	Pass
11060.00	9848.44	-1463.24	-8.27	12312.98	11099.82	-1468.49	-219.67	350.72	1269.12	50.41	1234.68	39.66	OSF 1.50	Pass
11070.00	9848.92	-1473.23	-8.32	12319.95	11099.84	-1475.46	-219.41	350.73	1268.61	50.62	1234.03	39.47	OSF 1.50	Pass
11080.00	9849.40	-1483.22	-8.38	12326.93	11099.88	-1482.43	-219.16	350.74	1268.12	50.83	1233.40	39.28	OSF 1.50	Pass
11090.00	9849.88	-1493.20	-8.44	12333.91	11099.94	-1489.40	-218.90	350.76	1267.65	51.05	1232.79	39.09	OSF 1.50	Pass
11100.00	9850.36	-1503.19	-8.49	12340.89	11100.01	-1496.38	-218.65	350.77	1267.21	51.26	1232.21	38.90	OSF 1.50	Pass
11110.00	9850.84	-1513.18	-8.55	12347.87	11100.10	-1503.35	-218.39	350.78	1266.80	51.48	1231.64	38.72	OSF 1.50	Pass
11120.00	9851.32	-1523.17	-8.60	12354.85	11100.20	-1510.33	-218.14	350.79	1266.40	51.70	1231.11	38.54	OSF 1.50	Pass
11130.00	9851.80	-1533.16	-8.66	12361.83	11100.32	-1517.31	-217.89	350.80	1266.04	51.91	1230.59	38.36	OSF 1.50	Pass
11140.00	9852.28	-1543.15	-8.72	12368.81	11100.46	-1524.28	-217.65	350.81	1265.69	52.13	1230.10	38.18	OSF 1.50	Pass
11150.00	9852.76	-1553.13	-8.77	12375.80	11100.62	-1531.26	-217.40	350.82	1265.37	52.35	1229.64	38.00	OSF 1.50	Pass
11160.00	9853.24	-1563.12	-8.83	12382.78	11100.79	-1538.24	-217.16	350.83	1265.07	52.57	1229.19	37.83	OSF 1.50	Pass
11170.00	9853.72	-1573.11	-8.89	12389.77	11100.98	-1545.22	-216.92	350.85	1264.80	52.78	1228.77	37.65	OSF 1.50	Pass
11180.00	9854.20	-1583.10	-8.94	12397.77	11101.21	-1552.21	-216.64	350.86	1264.55	53.02	1228.37	37.47	OSF 1.50	Pass
11190.00	9854.68	-1593.09	-9.00	12408.77	11101.53	-1564.21	-216.27	350.88	1264.30	53.29	1227.93	37.26	OSF 1.50	Pass
11200.00	9855.16	-1603.08	-9.06	12419.78	11101.84	-1575.20	-215.90	350.89	1264.04	53.57	1227.49	37.05	OSF 1.50	Pass
11210.00	9855.64	-1613.06	-9.11	12430.78	11102.15	-1586.19	-215.53	350.91	1263.77	53.85	1227.04	36.84	OSF 1.50	Pass
11220.00	9856.12	-1623.05	-9.17	12441.78	11102.44	-1597.19	-215.17	350.93	1263.50	54.13	1226.58	36.63	OSF 1.50	Pass
11230.00	9856.60	-1633.04	-9.22	12452.79	11102.72	-1608.18	-214.81	350.95	1263.22	54.41	1226.11	36.43	OSF 1.50	Pass
11240.00	9857.07	-1643.03	-9.28	12463.79	11102.99	-1619.17	-214.46	350.96	1262.93	54.69	1225.63	36.22	OSF 1.50	Pass
11250.00	9857.55	-1653.02	-9.34	12474.79	11103.26	-1630.17	-214.11	350.98	1262.63	54.97	1225.15	36.02	OSF 1.50	Pass
11260.00	9858.03	-1663.01	-9.39	12485.80	11103.51	-1641.16	-213.76	351.00	1262.32	55.25	1224.66	35.82	OSF 1.50	Pass
11270.00	9858.51	-1672.99	-9.45	12497.06	11103.76	-1652.41	-213.41	351.01	1262.01	55.54	1224.15	35.62	OSF 1.50	Pass
11280.00	9858.99	-1682.98	-9.51	12508.47	11104.00	-1663.82	-213.07	351.03	1261.68	55.84	1223.63	35.41	OSF 1.50	Pass
11290.00	9859.47	-1692.97	-9.56	12519.89	11104.22	-1675.24	-212.73	351.04	1261.35	56.13	1223.09	35.21	OSF 1.50	Pass
11300.00	9859.95	-1702.96	-9.62	12531.31	11104.43	-1686.65	-212.41	351.06	1261.00	56.43	1222.55	35.00	OSF 1.50	Pass
11310.00	9860.43	-1712.95	-9.67	12542.73	11104.63	-1698.06	-212.10	351.07	1260.64	56.73	1221.99	34.80	OSF 1.50	Pass
11320.00	9860.91	-1722.94	-9.73	12554.15	11104.81	-1709.47	-211.80	351.09	1260.27	57.02	1221.42	34.60	OSF 1.50	Pass
11330.00	9861.39	-1732.92	-9.79	12565.56	11104.97	-1720.88	-211.51	351.10	1259.89	57.32	1220.84	34.40	OSF 1.50	Pass
11340.00	9861.87	-1742.91	-9.84	12576.98	11105.12	-1732.29	-211.23	351.11	1259.50	57.62	1220.25	34.21	OSF 1.50	Pass
11350.00	9862.35	-1752.90	-9.90	12588.40	11105.26	-1743.66	-210.95	351.12	1259.09	57.92	1219.64	34.01	OSF 1.50	Pass
11360.00	9862.83	-1762.89	-9.96	12600.90	11105.38	-1755.00	-210.66	351.14	1258.67	58.24	1219.01	33.81	OSF 1.50	Pass
11370.00	9863.31	-1772.88	-10.01	12613.15	11105.48	-1766.45	-210.37	351.15	1258.23	58.55	1218.37	33.60	OSF 1.50	Pass
11380.00	9863.79	-1782.87	-10.07	12625.40	11105.56	-1777.80	-210.07	351.16	1257.78	58.87	1217.70	33.40	OSF 1.50	Pass
11390.00	9864.27	-1792.85	-10.13	12637.64	11105.62	-1789.24	-209.78	351.18	1257.30	59.18	1217.02	33.21	OSF 1.50	Pass
11400.00	9864.75	-1802.84	-10.18	12649.89	11105.66	-1800.68	-209.47	351.19	1256.81	59.50	1216.31	33.01	OSF 1.50	Pass
11410.00	9865.23	-1812.83	-10.24	12662.13	11105.67	-1812.42	-209.17	351.20	1256.30	59.81	1215.59	32.81	OSF 1.50	Pass
11420.00	9865.71	-1822.82	-10.29	12674.37	11105.66	-1823.66	-208.86	351.21	1255.77	60.13	1214.85	32.62	OSF 1.50	Pass
11430.00	9866.19	-1832.81	-10.35	12686.61	11105.65	-1834.99	-208.61	351.22	1255.23	60.40	1214.13	32.45	OSF 1.50	Pass
11440.00	9866.67	-1842.80	-10.41	12698.85	11105.65	-1846.71	-208.42	351.23	1254.71	60.64	1213.45	32.31	OSF 1.50	Pass
11450.00	9867.15	-1852.78	-10.46	12698.85	11105.66	-1854.13	-208.22	351.24	1254.21	60.87	1212.79	32.17	OSF 1.50	Pass
11460.00	9867.63	-1862.77	-10.52	12706.28	11105.70	-1861.55	-208.02	351.25	1253.72	61.11	1212.15	32.02	OSF 1.50	Pass
11470.00	9868.11	-1872.76	-10.58	12713.70	11105.74	-1868.97	-207.82	351.26	1253.26	61.34	1211.53	31.88	OSF 1.50	Pass
11480.00	9868.59	-1882.75	-10.63	12721.13	11105.81	-1876.40	-207.61	351.27	1252.82	61.58	1210.93	31.74	OSF 1.50	Pass
11490.00	9869.07	-1892.74	-10.69	12728.56	11105.89	-1883.82	-207.39	351.28	1252.40	61.82	1210.35	31.61	OSF 1.50	Pass
11500.00	9869.54	-1902.73	-10.74	12735.98	11105.98	-1891.24	-207.17	351.29	1252.00	62.05	1209.80	31.47	OSF 1.50	Pass
11510.00	9870.02	-1912.71	-10.80	12743.41	11106.09	-1898.67	-206.95	351.30	1251.62	62.29	1209.26	31.34	OSF 1.50	Pass
11520.00	9870.50	-1922.70	-10.86	12750.84	11106.22	-1906.09	-206.73	351.31	1251.26	62.52	1208.74	31.21	OSF 1.50	Pass
11530.00	9870.98	-1932.69	-10.91	12758.27	11106.37	-1913.52	-206.50	351.32	1250.92	62.76	1208.24	31.08	OSF 1.50	Pass

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
11690.00	9878.66	-2092.50	-11.81	12936.24	11109.29	-2091.38	-201.39	351.56	1245.15	67.52	1199.31	28.67	OSF 1.50	Pass
11700.00	9879.14	-2102.49	-11.87	12948.38	11109.34	-2103.52	-201.08	351.57	1244.67	67.84	1198.61	28.52	OSF 1.50	Pass
11710.00	9879.62	-2112.48	-11.93	12960.51	11109.37	-2115.65	-200.78	351.58	1244.17	68.16	1197.90	28.37	OSF 1.50	Pass
11720.00	9880.10	-2122.47	-11.98	12969.26	11109.38	-2124.40	-200.56	351.59	1243.66	68.42	1197.22	28.24	OSF 1.50	Pass
11730.00	9880.58	-2132.46	-12.04	12976.65	11109.40	-2131.78	-200.38	351.60	1243.18	68.66	1196.57	28.13	OSF 1.50	Pass
11740.00	9881.05	-2142.45	-12.09	12984.03	11109.44	-2139.16	-200.19	351.61	1242.71	68.90	1195.94	28.02	OSF 1.50	Pass
11750.00	9881.53	-2152.43	-12.15	12991.42	11109.50	-2146.54	-200.01	351.62	1242.26	69.14	1195.33	27.90	OSF 1.50	Pass
11760.00	9882.01	-2162.42	-12.21	12998.80	11109.57	-2153.93	-199.82	351.62	1241.84	69.38	1194.75	27.79	OSF 1.50	Pass
11770.00	9882.49	-2172.41	-12.26	13006.19	11109.66	-2161.31	-199.62	351.63	1241.43	69.62	1194.19	27.69	OSF 1.50	Pass
11780.00	9882.97	-2182.40	-12.32	13013.58	11109.76	-2168.70	-199.43	351.64	1241.05	69.86	1193.64	27.58	OSF 1.50	Pass
11790.00	9883.45	-2192.39	-12.38	13020.97	11109.88	-2176.08	-199.24	351.65	1240.69	70.10	1193.12	27.47	OSF 1.50	Pass
11800.00	9883.93	-2202.38	-12.43	13028.36	11110.02	-2183.47	-199.04	351.66	1240.35	70.34	1192.62	27.37	OSF 1.50	Pass
11810.00	9884.41	-2212.36	-12.49	13035.75	11110.17	-2190.86	-198.84	351.67	1240.03	70.58	1192.14	27.26	OSF 1.50	Pass
11820.00	9884.89	-2222.35	-12.54	13043.14	11110.34	-2198.24	-198.64	351.68	1239.73	70.83	1191.68	27.16	OSF 1.50	Pass
11830.00	9885.37	-2232.34	-12.60	13050.54	11110.52	-2205.63	-198.43	351.69	1239.45	71.07	1191.24	27.06	OSF 1.50	Pass
11840.00	9885.85	-2242.33	-12.66	13057.93	11110.72	-2213.02	-198.23	351.70	1239.20	71.31	1190.83	26.96	OSF 1.50	Pass
11850.00	9886.33	-2252.32	-12.71	13065.01	11111.03	-2224.10	-197.92	351.71	1238.95	71.60	1190.38	26.84	OSF 1.50	Pass
11860.00	9886.81	-2262.31	-12.77	13070.72	11111.34	-2235.80	-197.61	351.73	1238.69	71.91	1189.91	26.71	OSF 1.50	Pass
11870.00	9887.29	-2272.29	-12.83	13076.43	11111.63	-2247.50	-197.31	351.75	1238.41	72.22	1189.43	26.59	OSF 1.50	Pass
11880.00	9887.77	-2282.28	-12.88	13104.14	11111.90	-2259.20	-197.01	351.76	1238.12	72.53	1188.94	26.47	OSF 1.50	Pass
11890.00	9888.25	-2292.27	-12.94	13115.85	11112.16	-2270.90	-196.73	351.77	1237.82	72.84	1188.43	26.34	OSF 1.50	Pass
11900.00	9888.73	-2302.26	-12.99	13127.55	11112.40	-2282.60	-196.45	351.79	1237.50	73.15	1187.90	26.22	OSF 1.50	Pass
11910.00	9889.21	-2312.25	-13.05	13139.26	11112.62	-2294.31	-196.19	351.80	1237.17	73.46	1187.37	26.10	OSF 1.50	Pass
11920.00	9889.69	-2322.24	-13.11	13150.97	11112.82	-2306.01	-195.93	351.81	1236.83	73.77	1186.82	25.98	OSF 1.50	Pass
11930.00	9890.17	-2332.22	-13.16	13162.68	11113.00	-2317.52	-195.69	351.82	1236.47	74.08	1186.25	25.86	OSF 1.50	Pass
11940.00	9890.65	-2342.21	-13.22	13173.93	11113.16	-2328.96	-195.46	351.83	1236.10	74.39	1185.67	25.74	OSF 1.50	Pass
11950.00	9891.13	-2352.20	-13.27	13185.38	11113.32	-2340.41	-195.23	351.85	1235.72	74.71	1185.08	25.62	OSF 1.50	Pass
11960.00	9891.61	-2362.19	-13.33	13196.83	11113.45	-2351.85	-195.02	351.86	1235.32	75.02	1184.48	25.50	OSF 1.50	Pass
11970.00	9892.08	-2372.18	-13.39	13208.28	11113.57	-2363.30	-194.80	351.87	1234.92	75.33	1183.86	25.38	OSF 1.50	Pass
11980.00	9892.56	-2382.17	-13.44	13219.72	11113.68	-2374.74	-194.60	351.87	1234.50	75.65	1183.24	25.26	OSF 1.50	Pass
11990.00	9893.04	-2392.15	-13.50	13231.17	11113.77	-2386.19	-194.40	351.88	1234.07	75.96	1182.60	25.15	OSF 1.50	Pass
12000.00	9893.52	-2402.14	-13.56	13242.61	11113.85	-2397.63	-194.21	351.89	1233.63	76.28	1181.95	25.03	OSF 1.50	Pass
12010.00	9894.00	-2412.13	-13.61	13252.23	11113.91	-2407.24	-194.05	351.90	1233.19	76.56	1181.31	24.93	OSF 1.50	Pass
12020.00	9894.48	-2422.12	-13.67	13259.54	11113.96	-2414.56	-193.93	351.90	1232.75	76.80	1180.72	24.84	OSF 1.50	Pass
12030.00	9894.96	-2432.11	-13.72	13266.86	11114.03	-2421.87	-193.80	351.91	1232.34	77.05	1180.15	24.75	OSF 1.50	Pass
12040.00	9895.44	-2442.10	-13.78	13274.17	11114.12	-2429.18	-193.66	351.92	1231.95	77.29	1179.59	24.66	OSF 1.50	Pass
12050.00	9895.92	-2452.08	-13.84	13281.49	11114.23	-2436.49	-193.51	351.92	1231.54	77.53	1179.06	24.57	OSF 1.50	Pass
12060.00	9896.40	-2462.07	-13.89	13288.80	11114.36	-2443.81	-193.36	351.93	1231.24	77.78	1178.56	24.48	OSF 1.50	Pass
12070.00	9896.88	-2472.06	-13.95	13296.12	11114.50	-2451.12	-193.20	351.94	1230.92	78.02	1178.07	24.40	OSF 1.50	Pass
12080.00	9897.36	-2482.05	-14.01	13303.44	11114.66	-2458.43	-193.03	351.95	1230.62	78.26	1177.61	24.32	OSF 1.50	Pass
12090.00	9897.84	-2492.04	-14.06	13310.75	11114.83	-2465.75	-192.86	351.96	1230.34	78.50	1177.17	24.23	OSF 1.50	Pass
12100.00	9898.32	-2502.03	-14.12	13318.07	11115.02	-2473.06	-192.68	351.97	1230.08	78.75	1176.75	24.15	OSF 1.50	Pass
12110.00	9898.80	-2512.01	-14.17	13325.39	11115.23	-2480.37	-192.49	351.98	1229.84	78.99	1176.35	24.07	OSF 1.50	Pass
12120.00	9899.28	-2522.00	-14.23	13332.71	11115.46	-2487.68	-192.29	351.99	1229.63	79.23	1175.97	23.99	OSF 1.50	Pass
12130.00	9899.76	-2531.99	-14.29	13340.03	11115.70	-2495.00	-192.09	352.00	1229.43	79.47	1175.62	23.91	OSF 1.50	Pass
12140.00	9900.24	-2541.98	-14.34	13348.54	11116.01	-2503.50	-191.84	352.01	1229.26	79.73	1175.27	23.83	OSF 1.50	Pass
12150.00	9900.72	-2551.97	-14.40	13359.58	11116.40	-2514.53	-191.52	352.03	1229.09	80.04	1174.90	23.73	OSF 1.50	Pass
12160.00	9901.20	-2561.96	-14.45	13370.62	11116.78	-2525.56	-191.21	352.04	1228.91	80.34	1174.51	23.63	OSF 1.50	Pass
12170.00	9901.68	-2571.94	-14.51	13381.67	11117.15	-2536.60	-190.90	352.06	1228.72	80.64	1174.12	23.54	OSF 1.50	Pass
12180.00	9902.15	-2581.93	-14.57	13392.71	11117.51	-2547.63	-190.58	352.07	1228.52	80.95	1173.72	23.44	OSF 1.50	Pass
12190.00	9902.63	-2591.92	-14.62	13403.75	11117.86	-2558.66	-190.28	352.09	1228.31	81.25	1173.31	23.35	OSF 1.50	Pass
12200.00	9903.11	-2601.91	-14.68	13414.80	11118.20	-2569.70	-189.97	352.11	1228.09	81.55	1172.89	23.26	OSF 1.50	Pass
12210.00	9903.59	-2611.90	-14.74	13425.84	11118.54	-2580.73	-189.66	352.12	1227.87	81.85	1172.46	23.16	OSF 1.50	Pass
12220.00	9904.07	-2621.89	-14.79	13436.88	11118.86	-2591.76	-189.36	352.14	1227.63	82.16	1172.03	23.07	OSF 1.50	Pass
12230.00	9904.55	-2631.87	-14.85	13446.36	11119.13	-2601.23	-189.10	352.15	1227.40	82.44	1171.61	22.99	OSF 1.50	Pass
12240.00	9905.03	-2641.86	-14.90	13455.22	11119.39	-2610.09	-188.87	352.16	1227.17	82.70	1171.20	22.90	OSF 1.50	Pass
12250.00	9905.51	-2651.85	-14.96	13464.08	11119.66	-2618.94	-188.64	352.17	1226.95	82.97	1170.80	22.82	OSF 1.50	Pass
12260.00	9905.99	-2661.84	-15.02	13472.95	11119.94	-2627.80	-188.41	352.19	1226.74	83.24	1170.41	22.74	OSF 1.50	Pass
12270.00	9906.47	-2671.83	-15.07	13481.81	11120.22	-2636.66	-188.19	352.20	1226.54	83.51	1170.03	22.66	OSF 1.50	Pass
12280.00	9906.95	-2681.82	-15.13	13490.68	11120.51	-2645.51	-187.97	352.21	1226.35	83.78	1169.66	22.59	OSF 1.50	Pass
12290.00	9907.43	-2691.80	-15.18	13499.54	11120.81	-2654.37	-187.76	352.22	1226.17	84.05	1169.30	22.51	OSF 1.50	Pass
12300.00	9907.91	-2701.79	-15.24	13508.41	11121.12	-2663.23	-187.55	352.23	1225.99	84.31	1168.95	22.43	OSF 1.50	Pass
12310.00	9908.39	-2711.78	-15.30	13517.27	11121.43	-2672.09	-187.35	352.24	1225.83	84.58	1168.61	22.36	OSF 1.50	Pass
12320.00	9908.87	-2721.77	-15.35	13526.14	11121.76	-2680.94	-187.15	352.25	1225.67	84.85	1168.27	22.28	OSF 1.50	Pass
12330.00	9909.35	-2731.76	-15.41	13535.36	11122.10	-2690.16	-186.95	352.26	1225.53	85.13	1167.95	22.20	OSF 1.50	Pass
12340.00	9909.83	-2741.75	-15.47	13544.37	11122.54	-2702.15	-186.70	352.28	1225.38	85.45	1167.58	22.11	OSF 1.50	Pass
12350.00	9910.31	-2751.73	-15.52	13553.37	11122.95	-2714.15	-186.45	352.29	1225.21	85.77	1167.20	22.03	OSF 1.50	Pass
12360.00	9910.79	-2761.72	-15.58	13561.38	11123.35	-2726.14	-186.21	352.30	1225.03	86.09	1166.80	21.94	OSF 1.50	Pass
12370.00	9911.27	-2771.71	-15.63	13569.38	11123.72	-2738.14	-185.98	352.32	1224.83	86.41	1166.39	21.85	OSF 1.50	Pass
12380.00	9911.74	-2781.70	-15.69	13577.38	11124.08	-2750.14	-185.75	352.33	1224.					

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
12540.00	9919.42	-2941.51	-16.59	13727.98	11128.73	-2882.63	-183.49	352.46	1222.20	90.90	1160.77	20.70	OSF 1.50	Pass
12550.00	9919.90	-2951.50	-16.64	13739.80	11129.33	-2894.43	-183.30	352.47	1222.19	91.22	1160.54	20.62	OSF 1.50	Pass
12560.00	9920.38	-2961.49	-16.70	13751.62	11129.90	-2906.24	-183.10	352.48	1222.17	91.54	1160.31	20.55	OSF 1.50	Pass
12570.00	9920.85	-2971.48	-16.76	13763.44	11130.46	-2918.04	-182.91	352.49	1222.13	91.86	1160.06	20.47	OSF 1.50	Pass
12580.00	9921.33	-2981.47	-16.81	13775.27	11131.00	-2929.85	-182.72	352.51	1222.08	92.18	1159.79	20.40	OSF 1.50	Pass
12590.00	9921.81	-2991.45	-16.87	13787.09	11131.52	-2941.66	-182.54	352.52	1222.01	92.50	1159.51	20.32	OSF 1.50	Pass
12600.00	9922.29	-3001.44	-16.92	13798.91	11132.02	-2953.47	-182.35	352.53	1221.93	92.82	1159.21	20.25	OSF 1.50	Pass
12610.00	9922.77	-3011.43	-16.98	13810.73	11132.50	-2965.28	-182.18	352.54	1221.83	93.15	1158.90	20.18	OSF 1.50	Pass
12620.00	9923.25	-3021.42	-17.04	13822.43	11132.96	-2976.97	-182.00	352.55	1221.72	93.47	1158.57	20.10	OSF 1.50	Pass
12630.00	9923.73	-3031.41	-17.09	13833.84	11133.40	-2988.37	-181.84	352.56	1221.59	93.79	1158.23	20.03	OSF 1.50	Pass
12640.00	9924.21	-3041.40	-17.15	13845.26	11133.82	-2999.78	-181.69	352.57	1221.46	94.11	1157.88	19.96	OSF 1.50	Pass
12650.00	9924.69	-3051.38	-17.21	13856.67	11134.22	-3011.18	-181.55	352.58	1221.31	94.43	1157.52	19.89	OSF 1.50	Pass
12660.00	9925.17	-3061.37	-17.26	13868.08	11134.61	-3022.59	-181.42	352.58	1221.15	94.75	1157.15	19.82	OSF 1.50	Pass
12670.00	9925.65	-3071.36	-17.32	13879.49	11134.99	-3033.99	-181.30	352.59	1220.98	95.07	1156.76	19.74	OSF 1.50	Pass
12680.00	9926.13	-3081.35	-17.37	13890.91	11135.35	-3045.40	-181.19	352.60	1220.79	95.39	1156.37	19.67	OSF 1.50	Pass
12690.00	9926.61	-3091.34	-17.43	13902.32	11135.69	-3056.81	-181.09	352.61	1220.60	95.71	1155.96	19.60	OSF 1.50	Pass
12700.00	9927.09	-3101.33	-17.49	13913.73	11136.02	-3068.05	-181.01	352.61	1220.40	96.03	1155.54	19.53	OSF 1.50	Pass
12710.00	9927.57	-3111.31	-17.54	13925.14	11136.28	-3079.61	-180.93	352.62	1220.19	96.30	1155.15	19.47	OSF 1.50	Pass
12720.00	9928.05	-3121.30	-17.60	13936.55	11136.55	-3089.73	-180.85	352.62	1219.99	96.58	1154.77	19.41	OSF 1.50	Pass
12730.00	9928.53	-3131.29	-17.65	13947.96	11136.82	-3099.63	-180.75	352.63	1219.81	96.85	1154.40	19.35	OSF 1.50	Pass
12740.00	9929.01	-3141.28	-17.71	13959.37	11137.11	-3103.49	-180.64	352.63	1219.63	97.13	1154.04	19.29	OSF 1.50	Pass
12750.00	9929.49	-3151.27	-17.77	13970.78	11137.41	-3112.35	-180.51	352.64	1219.46	97.40	1153.69	19.24	OSF 1.50	Pass
12760.00	9929.96	-3161.26	-17.82	13982.19	11137.72	-3121.21	-180.37	352.65	1219.30	97.67	1153.35	19.18	OSF 1.50	Pass
12770.00	9930.44	-3171.24	-17.88	13993.60	11138.04	-3130.06	-180.22	352.66	1219.15	97.95	1153.02	19.12	OSF 1.50	Pass
12780.00	9930.92	-3181.23	-17.93	13994.48	11138.37	-3138.92	-180.05	352.67	1219.01	98.22	1152.70	19.06	OSF 1.50	Pass
12790.00	9931.40	-3191.22	-17.99	13995.35	11138.70	-3147.77	-179.87	352.68	1218.88	98.49	1152.39	19.01	OSF 1.50	Pass
12800.00	9931.88	-3201.21	-18.05	14002.21	11139.05	-3156.63	-179.68	352.69	1218.76	98.76	1152.08	18.95	OSF 1.50	Pass
12810.00	9932.36	-3211.20	-18.10	14012.00	11139.45	-3165.41	-179.45	352.70	1218.65	99.05	1151.78	18.89	OSF 1.50	Pass
12820.00	9932.84	-3221.19	-18.16	14023.54	11139.90	-3174.94	-179.18	352.72	1218.52	99.37	1151.44	18.83	OSF 1.50	Pass
12830.00	9933.32	-3231.17	-18.21	14035.08	11140.35	-3184.46	-178.91	352.73	1218.39	99.69	1151.10	18.77	OSF 1.50	Pass
12840.00	9933.80	-3241.16	-18.27	14046.62	11140.77	-3193.99	-178.65	352.75	1218.24	100.01	1150.74	18.70	OSF 1.50	Pass
12850.00	9934.28	-3251.15	-18.33	14058.16	11141.18	-3203.52	-178.38	352.76	1218.08	100.33	1150.37	18.64	OSF 1.50	Pass
12860.00	9934.76	-3261.14	-18.38	14069.70	11141.58	-3213.05	-178.12	352.77	1217.91	100.64	1149.98	18.58	OSF 1.50	Pass
12870.00	9935.24	-3271.13	-18.44	14081.24	11141.96	-3222.58	-177.86	352.79	1217.73	100.96	1149.59	18.51	OSF 1.50	Pass
12880.00	9935.72	-3281.12	-18.50	14092.78	11142.33	-3232.11	-177.60	352.80	1217.53	101.28	1149.18	18.45	OSF 1.50	Pass
12890.00	9936.20	-3291.10	-18.55	14104.32	11142.68	-3241.64	-177.34	352.82	1217.32	101.60	1148.76	18.39	OSF 1.50	Pass
12900.00	9936.68	-3301.09	-18.61	14116.03	11143.02	-3251.17	-177.09	352.83	1217.10	101.92	1148.31	18.32	OSF 1.50	Pass
12910.00	9937.16	-3311.08	-18.66	14127.75	11143.34	-3260.66	-176.84	352.84	1216.86	102.25	1147.86	18.26	OSF 1.50	Pass
12920.00	9937.64	-3321.07	-18.72	14139.46	11143.65	-3269.76	-176.60	352.86	1216.61	102.58	1147.39	18.20	OSF 1.50	Pass
12930.00	9938.11	-3331.06	-18.78	14151.17	11143.94	-3278.87	-176.37	352.87	1216.34	102.90	1146.91	18.13	OSF 1.50	Pass
12940.00	9938.59	-3341.05	-18.83	14162.88	11144.20	-3287.98	-176.14	352.88	1216.06	103.23	1146.41	18.07	OSF 1.50	Pass
12950.00	9939.07	-3351.03	-18.89	14174.60	11144.46	-3297.09	-175.92	352.89	1215.77	103.55	1145.90	18.01	OSF 1.50	Pass
12960.00	9939.55	-3361.02	-18.94	14186.31	11144.69	-3306.19	-175.71	352.90	1215.46	103.88	1145.38	17.95	OSF 1.50	Pass
12970.00	9940.03	-3371.01	-19.00	14198.02	11144.91	-3315.29	-175.50	352.91	1215.14	104.21	1144.84	17.88	OSF 1.50	Pass
12980.00	9940.51	-3381.00	-19.06	14209.73	11145.06	-3324.38	-175.27	352.92	1214.82	104.47	1144.34	17.83	OSF 1.50	Pass
12990.00	9940.99	-3390.99	-19.11	14221.44	11145.21	-3333.47	-175.03	352.93	1214.52	104.72	1143.87	17.78	OSF 1.50	Pass
13000.00	9941.47	-3400.98	-19.17	14233.15	11145.39	-3342.56	-174.79	352.94	1214.23	104.98	1143.41	17.74	OSF 1.50	Pass
13010.00	9941.95	-3410.96	-19.22	14244.86	11145.57	-3351.65	-174.56	352.94	1213.96	105.24	1142.97	17.69	OSF 1.50	Pass
13020.00	9942.43	-3420.95	-19.28	14256.57	11145.77	-3360.74	-174.33	352.95	1213.69	105.49	1142.55	17.64	OSF 1.50	Pass
13030.00	9942.91	-3430.94	-19.34	14268.28	11145.99	-3369.83	-174.10	352.96	1213.42	105.75	1142.15	17.59	OSF 1.50	Pass
13040.00	9943.39	-3440.93	-19.39	14279.99	11146.22	-3378.92	-173.87	352.97	1213.15	106.00	1141.77	17.55	OSF 1.50	Pass
13050.00	9943.87	-3450.92	-19.45	14291.70	11146.47	-3388.01	-173.64	352.97	1212.88	106.26	1141.41	17.50	OSF 1.50	Pass
13060.00	9944.35	-3460.91	-19.50	14303.41	11146.72	-3397.10	-173.41	352.98	1212.61	106.51	1141.06	17.46	OSF 1.50	Pass
13070.00	9944.83	-3470.90	-19.56	14315.12	11147.00	-3406.19	-173.18	352.99	1212.34	106.77	1140.74	17.41	OSF 1.50	Pass
13080.00	9945.31	-3480.88	-19.62	14326.83	11147.29	-3415.28	-172.95	353.00	1212.07	107.02	1140.43	17.37	OSF 1.50	Pass
13090.00	9945.79	-3490.87	-19.67	14338.54	11147.59	-3424.37	-172.72	353.01	1211.80	107.28	1140.14	17.32	OSF 1.50	Pass
13100.00	9946.26	-3500.86	-19.73	14350.25	11147.88	-3433.46	-172.49	353.02	1211.53	107.57	1139.83	17.27	OSF 1.50	Pass
13110.00	9946.74	-3510.85	-19.78	14361.96	11148.16	-3442.55	-172.26	353.03	1211.26	107.80	1139.50	17.22	OSF 1.50	Pass
13120.00	9947.22	-3520.84	-19.84	14373.67	11148.40	-3451.64	-172.03	353.04	1211.00	108.02	1139.15	17.16	OSF 1.50	Pass
13130.00	9947.70	-3530.83	-19.90	14385.38	11148.69	-3460.73	-171.80	353.05	1210.73	108.24	1138.79	17.11	OSF 1.50	Pass
13140.00	9948.18	-3540.82	-19.95	14397.09	11148.97	-3469.82	-171.57	353.06	1210.46	108.46	1138.41	17.06	OSF 1.50	Pass
13150.00	9948.66	-3550.80	-20.01	14408.80	11149.26	-3478.91	-171.34	353.08	1210.19	108.68	1138.02	17.00	OSF 1.50	Pass
13160.00	9949.14	-3560.79	-20.06	14420.51	11149.55	-3488.00	-171.11	353.09	1209.92	108.90	1137.62	16.95	OSF 1.50	Pass
13170.00	9949.62	-3570.78	-20.12	14432.22	11149.84	-3497.09	-170.88	353.10	1209.65	109.12	1137.20	16.89	OSF 1.50	Pass
13180.00	9950.10	-3580.77	-20.18	14443.93	11150.13	-3506.18	-170.65	353.11	1209.38	109.34	1136.76	16.84	OSF 1.50	Pass
13190.00	9950.58	-3590.76	-20.23	14455.64	11150.42	-3515.27	-170.42	353.12	1209.11	109.56	1136.31	16.79	OSF 1.50	Pass
13200.00	9951.06	-3600.75	-20.29	14467.35	11150.71	-3524.36	-170.19	353.13	1208.84	109.78	1135.85	16.73	OSF 1.50	Pass
13210.00	9951.54	-3610.73	-20.34	14479.06	11151.00	-3533.45	-170.00	353.14	1208.57	110.00	1135.37	16.68	OSF 1.50	Pass
13220.00	9952.02	-3620.72	-20.40	14490.77	11151.29	-3542.54	-169.77	353.14	1208.30	110.22	1134.88	16.62	OSF 1.50	Pass
13230.00	9952.50	-3630.71	-20.46	14502.48	11151.58	-								

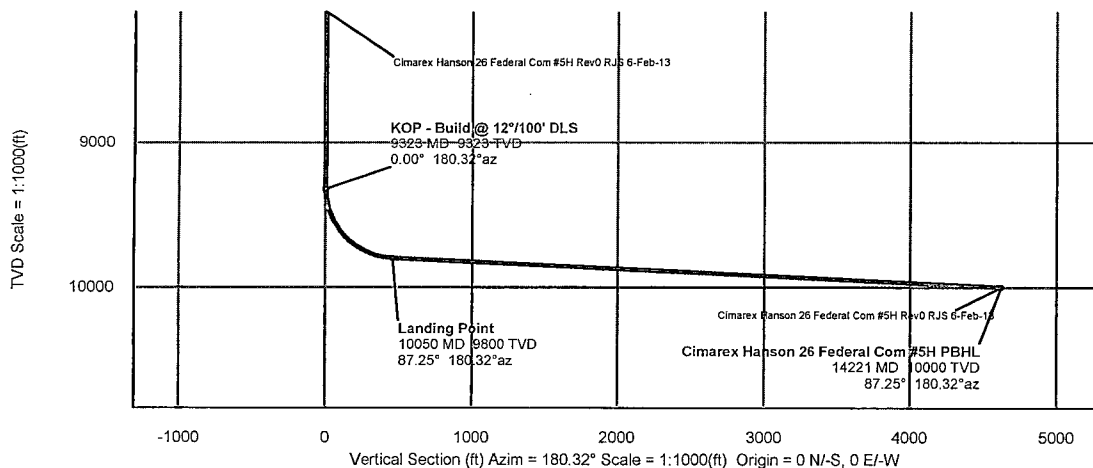
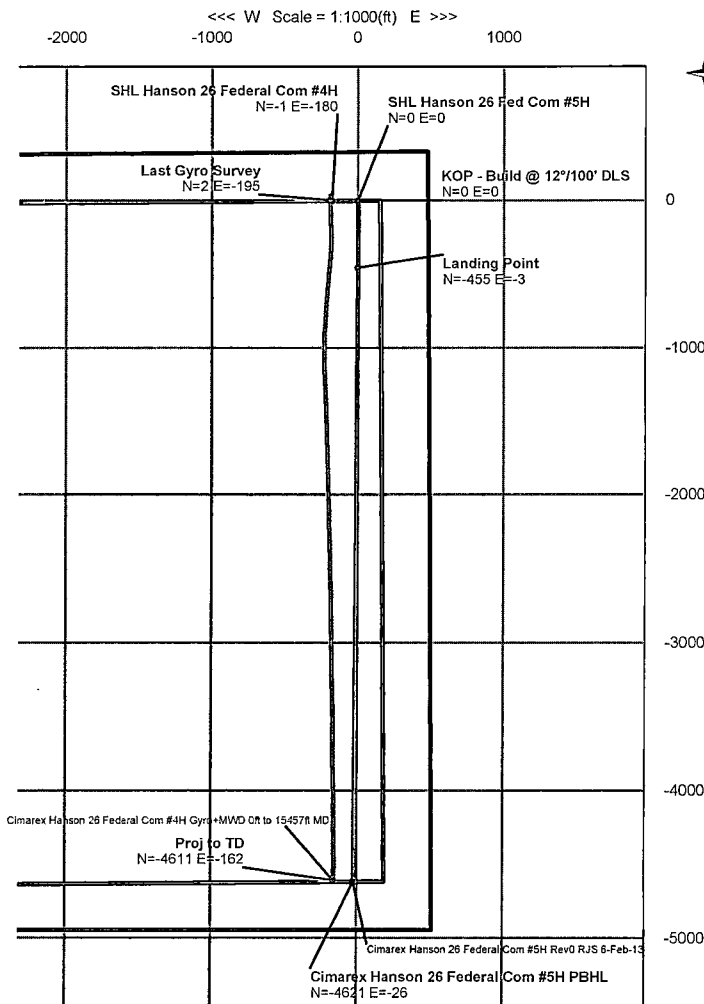
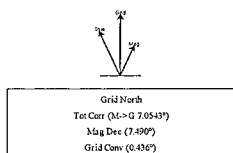
Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
13390.00	9960.17	-3790.52	-21.35	14625.08	11154.26	-3779.19	-170.60	353.19	1203.43	116.75	1124.77	15.77	OSF 1.50	Pass
13400.00	9960.65	-3800.51	-21.41	14633.48	11154.35	-3787.59	-170.52	353.19	1203.05	117.02	1124.20	15.72	OSF 1.50	Pass
13410.00	9961.13	-3810.50	-21.46	14641.87	11154.46	-3795.99	-170.43	353.20	1202.68	117.29	1123.65	15.68	OSF 1.50	Pass
13420.00	9961.61	-3820.49	-21.52	14650.27	11154.58	-3804.39	-170.33	353.20	1202.33	117.56	1123.12	15.64	OSF 1.50	Pass
13430.00	9962.08	-3830.48	-21.58	14658.67	11154.71	-3812.78	-170.22	353.21	1201.99	117.83	1122.60	15.60	OSF 1.50	Pass
13440.00	9962.56	-3840.46	-21.63	14667.07	11154.86	-3821.18	-170.09	353.22	1201.66	118.10	1122.09	15.56	OSF 1.50	Pass
13450.00	9963.04	-3850.45	-21.69	14675.44	11155.02	-3829.55	-169.95	353.22	1201.34	118.37	1121.59	15.52	OSF 1.50	Pass
13460.00	9963.52	-3860.44	-21.74	14683.84	11155.19	-3837.94	-169.81	353.23	1201.04	118.63	1121.12	15.48	OSF 1.50	Pass
13470.00	9964.00	-3870.43	-21.80	14692.23	11155.37	-3846.33	-169.67	353.24	1200.75	118.90	1120.66	15.44	OSF 1.50	Pass
13480.00	9964.48	-3880.42	-21.86	14700.63	11155.56	-3854.73	-169.52	353.25	1200.48	119.16	1120.21	15.40	OSF 1.50	Pass
13490.00	9964.96	-3890.41	-21.91	14709.03	11155.77	-3863.12	-169.38	353.25	1200.22	119.42	1119.77	15.37	OSF 1.50	Pass
13500.00	9965.44	-3900.39	-21.97	14717.43	11155.98	-3871.52	-169.21	353.26	1199.97	119.68	1119.35	15.33	OSF 1.50	Pass
13510.00	9965.92	-3910.38	-22.02	14725.83	11156.21	-3879.91	-169.05	353.27	1199.74	119.94	1118.95	15.29	OSF 1.50	Pass
13520.00	9966.40	-3920.37	-22.08	14734.23	11156.46	-3888.30	-168.88	353.28	1199.53	120.21	1118.56	15.25	OSF 1.50	Pass
13530.00	9966.88	-3930.36	-22.14	14742.63	11156.71	-3896.69	-168.71	353.29	1199.32	120.47	1118.18	15.22	OSF 1.50	Pass
13540.00	9967.36	-3940.35	-22.19	14751.03	11156.98	-3905.09	-168.54	353.30	1199.14	120.73	1117.82	15.18	OSF 1.50	Pass
13550.00	9967.84	-3950.34	-22.25	14759.43	11157.26	-3913.48	-168.37	353.31	1198.96	120.99	1117.47	15.15	OSF 1.50	Pass
13560.00	9968.32	-3960.33	-22.30	14767.83	11157.55	-3921.87	-168.19	353.32	1198.80	121.25	1117.13	15.11	OSF 1.50	Pass
13570.00	9968.80	-3970.31	-22.36	14776.23	11157.84	-3930.27	-167.95	353.33	1198.65	121.56	1116.77	15.07	OSF 1.50	Pass
13580.00	9969.27	-3980.30	-22.42	14784.63	11158.14	-3938.67	-167.70	353.35	1198.48	121.88	1116.39	15.03	OSF 1.50	Pass
13590.00	9969.75	-3990.29	-22.47	14800.86	11158.72	-3954.88	-167.45	353.36	1198.30	122.20	1116.00	14.98	OSF 1.50	Pass
13600.00	9970.23	-4000.28	-22.53	14812.40	11159.09	-3966.42	-167.20	353.37	1198.10	122.52	1115.59	14.94	OSF 1.50	Pass
13610.00	9970.71	-4010.27	-22.58	14823.94	11159.44	-3977.95	-166.96	353.39	1197.90	122.84	1115.17	14.90	OSF 1.50	Pass
13620.00	9971.19	-4020.25	-22.64	14835.49	11159.78	-3989.49	-166.71	353.40	1197.68	123.16	1114.74	14.86	OSF 1.50	Pass
13630.00	9971.67	-4030.24	-22.70	14847.03	11160.10	-4001.02	-166.47	353.42	1197.45	123.48	1114.29	14.82	OSF 1.50	Pass
13640.00	9972.15	-4040.23	-22.75	14858.57	11160.40	-4012.56	-166.23	353.43	1197.20	123.80	1113.84	14.77	OSF 1.50	Pass
13650.00	9972.63	-4050.22	-22.81	14870.30	11160.70	-4024.28	-165.98	353.44	1196.94	124.12	1113.36	14.73	OSF 1.50	Pass
13660.00	9973.11	-4060.21	-22.86	14882.15	11160.97	-4036.12	-165.75	353.45	1196.67	124.45	1112.87	14.69	OSF 1.50	Pass
13670.00	9973.59	-4070.20	-22.92	14894.00	11161.23	-4047.97	-165.54	353.47	1196.38	124.78	1112.36	14.64	OSF 1.50	Pass
13680.00	9974.07	-4080.18	-22.98	14905.84	11161.47	-4059.81	-165.34	353.48	1196.08	125.11	1111.83	14.60	OSF 1.50	Pass
13690.00	9974.55	-4090.17	-23.03	14917.69	11161.68	-4071.65	-165.15	353.49	1195.75	125.44	1111.29	14.56	OSF 1.50	Pass
13700.00	9975.03	-4100.16	-23.09	14929.54	11161.88	-4083.50	-164.99	353.50	1195.42	125.77	1110.74	14.52	OSF 1.50	Pass
13710.00	9975.51	-4110.15	-23.14	14941.38	11162.05	-4095.34	-164.84	353.50	1195.07	126.10	1110.17	14.47	OSF 1.50	Pass
13720.00	9975.99	-4120.14	-23.20	14953.23	11162.21	-4107.18	-164.70	353.51	1194.70	126.43	1109.58	14.43	OSF 1.50	Pass
13730.00	9976.46	-4130.13	-23.26	14965.08	11162.32	-4116.93	-164.60	353.52	1194.33	126.72	1109.01	14.39	OSF 1.50	Pass
13740.00	9976.94	-4140.11	-23.31	14976.93	11162.43	-4125.27	-164.51	353.52	1193.96	126.99	1108.46	14.36	OSF 1.50	Pass
13750.00	9977.42	-4150.10	-23.37	14988.78	11162.55	-4133.61	-164.43	353.53	1193.61	127.26	1107.93	14.32	OSF 1.50	Pass
13760.00	9977.90	-4160.09	-23.42	14997.99	11162.68	-4141.94	-164.36	353.53	1193.27	127.53	1107.42	14.29	OSF 1.50	Pass
13770.00	9978.38	-4170.08	-23.48	14996.33	11162.83	-4150.28	-164.28	353.53	1192.95	127.80	1106.91	14.25	OSF 1.50	Pass
13780.00	9978.86	-4180.07	-23.54	15004.68	11162.98	-4158.62	-164.20	353.54	1192.64	128.07	1106.42	14.22	OSF 1.50	Pass
13790.00	9979.34	-4190.06	-23.59	15013.02	11163.14	-4166.96	-164.13	353.54	1192.34	128.34	1105.95	14.18	OSF 1.50	Pass
13800.00	9979.82	-4200.04	-23.65	15021.36	11163.32	-4175.30	-164.06	353.55	1192.06	128.61	1105.49	14.15	OSF 1.50	Pass
13810.00	9980.30	-4210.03	-23.70	15029.70	11163.51	-4183.64	-164.00	353.55	1191.79	128.88	1105.04	14.12	OSF 1.50	Pass
13820.00	9980.78	-4220.02	-23.76	15038.05	11163.71	-4191.98	-163.93	353.56	1191.54	129.14	1104.61	14.08	OSF 1.50	Pass
13830.00	9981.26	-4230.01	-23.81	15046.39	11163.92	-4200.33	-163.87	353.56	1191.30	129.41	1104.19	14.05	OSF 1.50	Pass
13840.00	9981.74	-4240.00	-23.87	15054.73	11164.16	-4208.67	-163.80	353.56	1191.07	129.69	1103.78	14.02	OSF 1.50	Pass
13850.00	9982.22	-4249.99	-23.93	15063.08	11164.43	-4217.02	-163.72	353.57	1190.84	129.98	1103.35	13.98	OSF 1.50	Pass
13860.00	9982.70	-4259.97	-23.98	15071.42	11164.70	-4225.36	-163.63	353.58	1190.62	130.28	1102.93	13.95	OSF 1.50	Pass
13870.00	9983.17	-4269.96	-24.04	15079.77	11164.97	-4233.70	-163.53	353.58	1190.39	130.58	1102.51	13.91	OSF 1.50	Pass
13880.00	9983.65	-4279.95	-24.09	15088.11	11165.25	-4242.04	-163.42	353.59	1190.16	130.87	1102.08	13.88	OSF 1.50	Pass
13890.00	9984.13	-4289.94	-24.15	15105.99	11165.52	-4250.38	-163.30	353.60	1189.93	131.17	1101.65	13.84	OSF 1.50	Pass
13900.00	9984.61	-4299.93	-24.21	15116.12	11165.79	-4258.72	-163.17	353.60	1189.70	131.46	1101.23	13.81	OSF 1.50	Pass
13910.00	9985.09	-4309.92	-24.26	15126.26	11166.06	-4267.06	-163.03	353.61	1189.47	131.76	1100.80	13.77	OSF 1.50	Pass
13920.00	9985.57	-4319.90	-24.32	15136.39	11166.34	-4275.40	-162.88	353.62	1189.24	132.05	1100.37	13.74	OSF 1.50	Pass
13930.00	9986.05	-4329.89	-24.37	15146.52	11166.61	-4283.74	-162.72	353.63	1189.00	132.35	1099.94	13.71	OSF 1.50	Pass
13940.00	9986.53	-4339.88	-24.43	15156.65	11166.91	-4292.08	-162.54	353.64	1188.76	132.67	1099.48	13.67	OSF 1.50	Pass
13950.00	9987.01	-4349.87	-24.49	15166.78	11167.19	-4300.42	-162.36	353.65	1188.51	132.99	1099.02	13.63	OSF 1.50	Pass
13960.00	9987.49	-4359.86	-24.54	15176.91	11167.46	-4308.76	-162.20	353.66	1188.25	133.31	1098.54	13.60	OSF 1.50	Pass
13970.00	9987.97	-4369.85	-24.60	15187.04	11167.72	-4317.10	-162.04	353.67	1187.97	133.63	1098.05	13.56	OSF 1.50	Pass
13980.00	9988.45	-4379.83	-24.65	15197.17	11167.96	-4325.44	-161.89	353.68	1187.68	133.95	1097.55	13.52	OSF 1.50	Pass
13990.00	9988.93	-4389.82	-24.71	15207.30	11168.19	-4333.78	-161.76	353.68	1187.38	134.27	1097.04	13.49	OSF 1.50	Pass
14000.00	9989.41	-4399.81	-24.77	15217.43	11168.40	-4342.12	-161.63	353.69	1187.07	134.59	1096.51	13.45	OSF 1.50	Pass
14010.00	9989.89	-4409.80	-24.82	15227.56	11168.60	-4350.46	-161.51	353.70	1186.75	134.91	1095.98	13.42	OSF 1.50	Pass
14020.00	9990.36	-4419.79	-24.88	15237.69	11168.78	-4358.80	-161.40	353.70	1186.41	135.23	1095.43	13.38	OSF 1.50	Pass
14030.00	9990.84	-4429.78	-24.93	15247.82	11168.95	-4367.14	-161.30	353.71	1186.07	135.56	1094.86	13.34	OSF 1.50	Pass
14040.00	9991.32	-4439.76	-24.99	15257.95	11169.10	-4375.48	-161.22	353.72	1185.70	135.88	1094.28	13.31	OSF 1.50	Pass
14050.00	9991.80	-4449.75	-25.04	15268.08	11169.23	-4383.82	-161.15	353.72	1185.33	136.21	1093.69	13.27	OSF 1.50	Pass
14060.00	9992.28	-4459.74	-25.10	15278.21	11169.35	-4392.16	-161.10	353.72	1184.94	136.54	1093.08	13.23	OSF 1.50	Pass
14070.00	9992.76	-4469.73	-25.16	15288.34	11169.44	-4400.50	-161.07	353.72	1184.54	136.86	1092.46	13.20	OSF 1.50	Pass
14080.00	9993.24	-4479.72	-25.21											



Cimarex

PATHFINDER
A Schlumberger Company

WELL		Hanson 26 Fed Com #5H		FIELD		NM Lea County		STRUCTURE		TBD	
Magnetic Parameters				Surface Location				Miscellaneous			
Model	BOGAM 2012	Dip	50.420°	Date	February 08, 2013	Lat	N 32 33 1.515	Spec	Hanson 26 Federal Com #5H TVD Ref. Ground Level (2648' above MSL)		
		Mag Dec	7.490°	FS	45334 SUT	Lon	W 103 31 25.984	Plan	Rev0 RJS 5-Feb-13	Empty Date	February 06, 2013
						North	554531.50 NUS	Grid Conv	0.436°		
						East	790749.90 NUS	Scale Fact	0.9998033		
								Empty Date	February 06, 2013		



Critical Point			Critical Points					
	MD	INCL	AZIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
SHL Hanson 26 Fed Com #5H	0.00	0.00	180.32	0.00	0.00	0.00	0.00	
KOP - Build @ 12°/100' DLS	9323.00	0.00	180.32	9323.00	0.00	0.00	0.00	0.00
Landing Point	10050.21	87.25	180.32	9800.00	454.64	-454.63	-2.57	12.00
Cimarex Hanson 26 Federal Com #5H PBHL	14221.05	87.25	180.32	10000.00	4620.67	-4620.60	-26.00	0.00

Drilling 12-1/4" hole
below 13 3/8" Casing

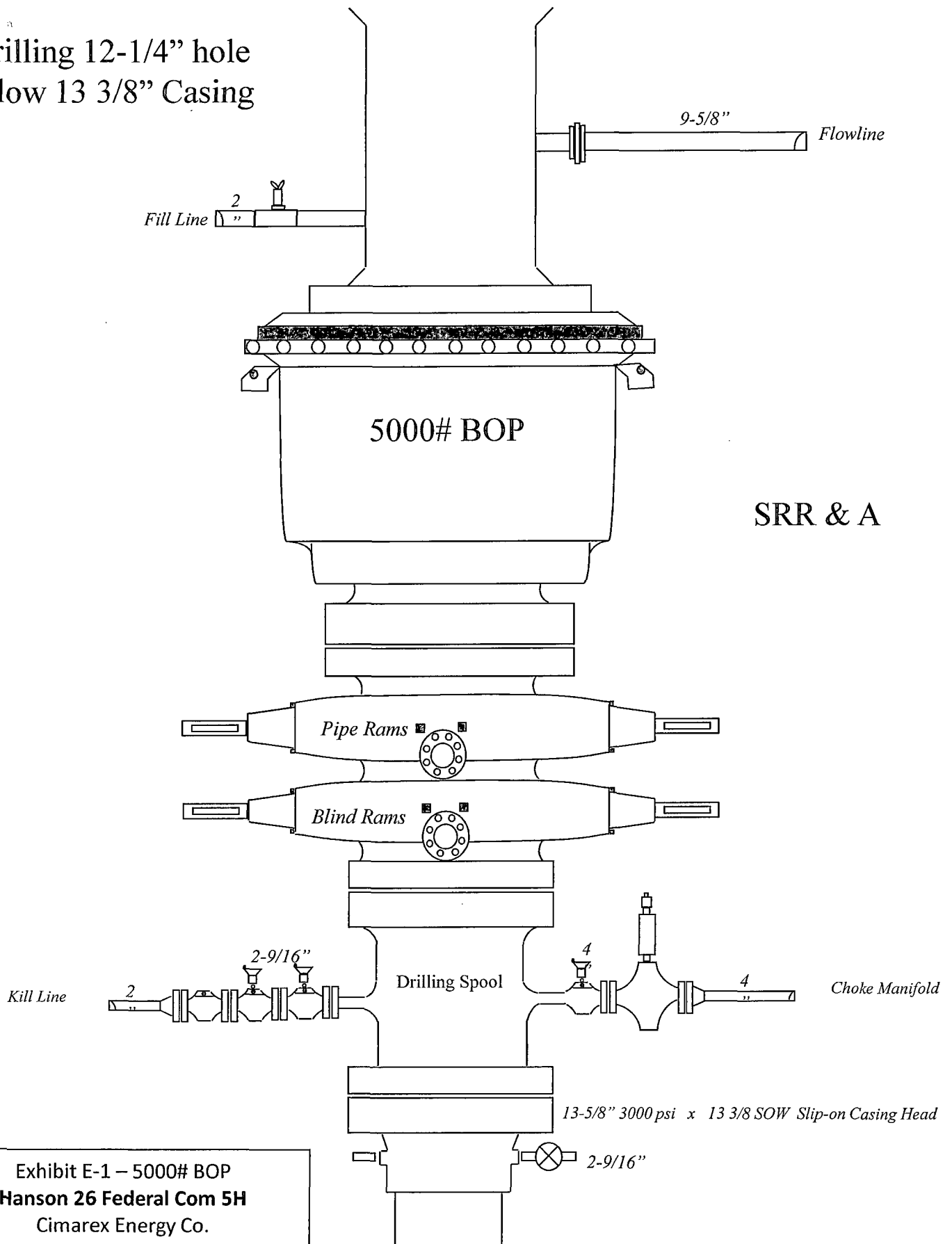


Exhibit E-1 – 5000# BOP
Hanson 26 Federal Com 5H
Cimarex Energy Co.
26-20S-34E
SHL 330 FNL & 480 FEL
BHL 330 FSL & 540 FEL
Lea County, NM

Drilling 8-3/4" hole
below 9 5/8" Casing

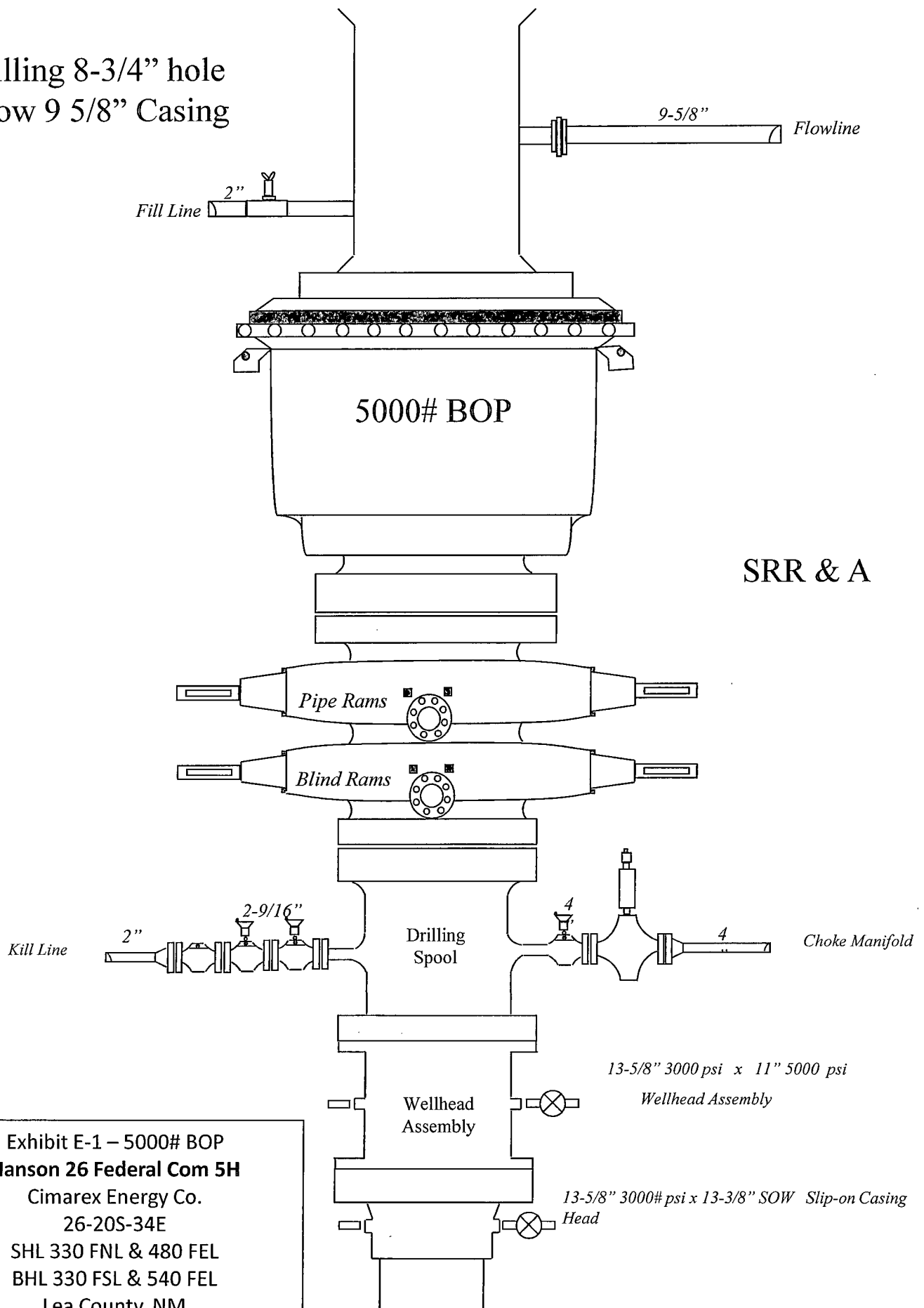


Exhibit E-1 – 5000# BOP
Hanson 26 Federal Com 5H
Cimarex Energy Co.
26-20S-34E
SHL 330 FNL & 480 FEL
BHL 330 FSL & 540 FEL
Lea County, NM

Exhibit E-1 – Choke Manifold Diagram
Hanson 26 Federal Com 5H
Cimarex Energy Co.
26-20S-34E
SHL 330 FNL & 480 FEL
BHL 330 FSL & 540 FEL
Lea County, NM

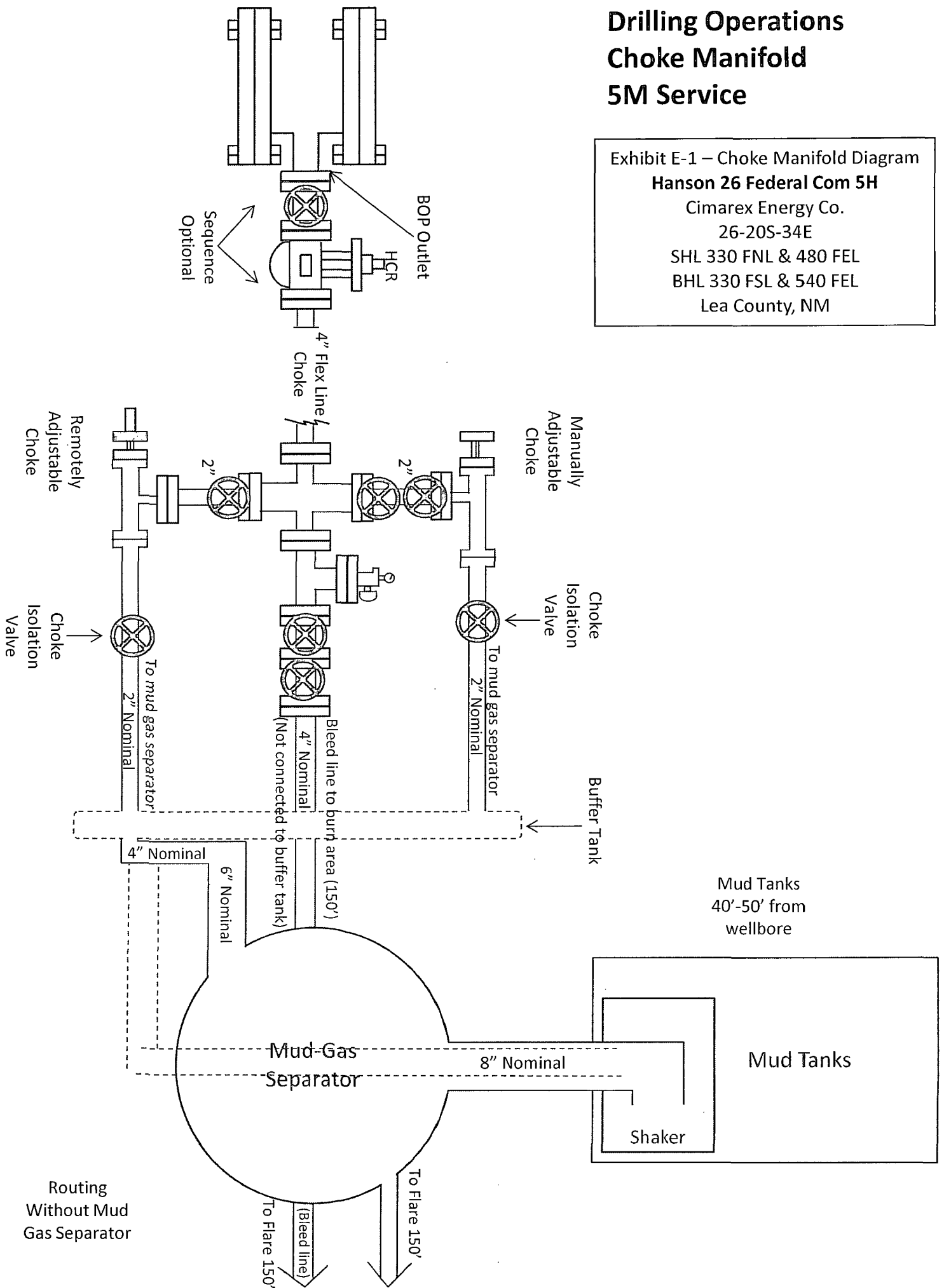
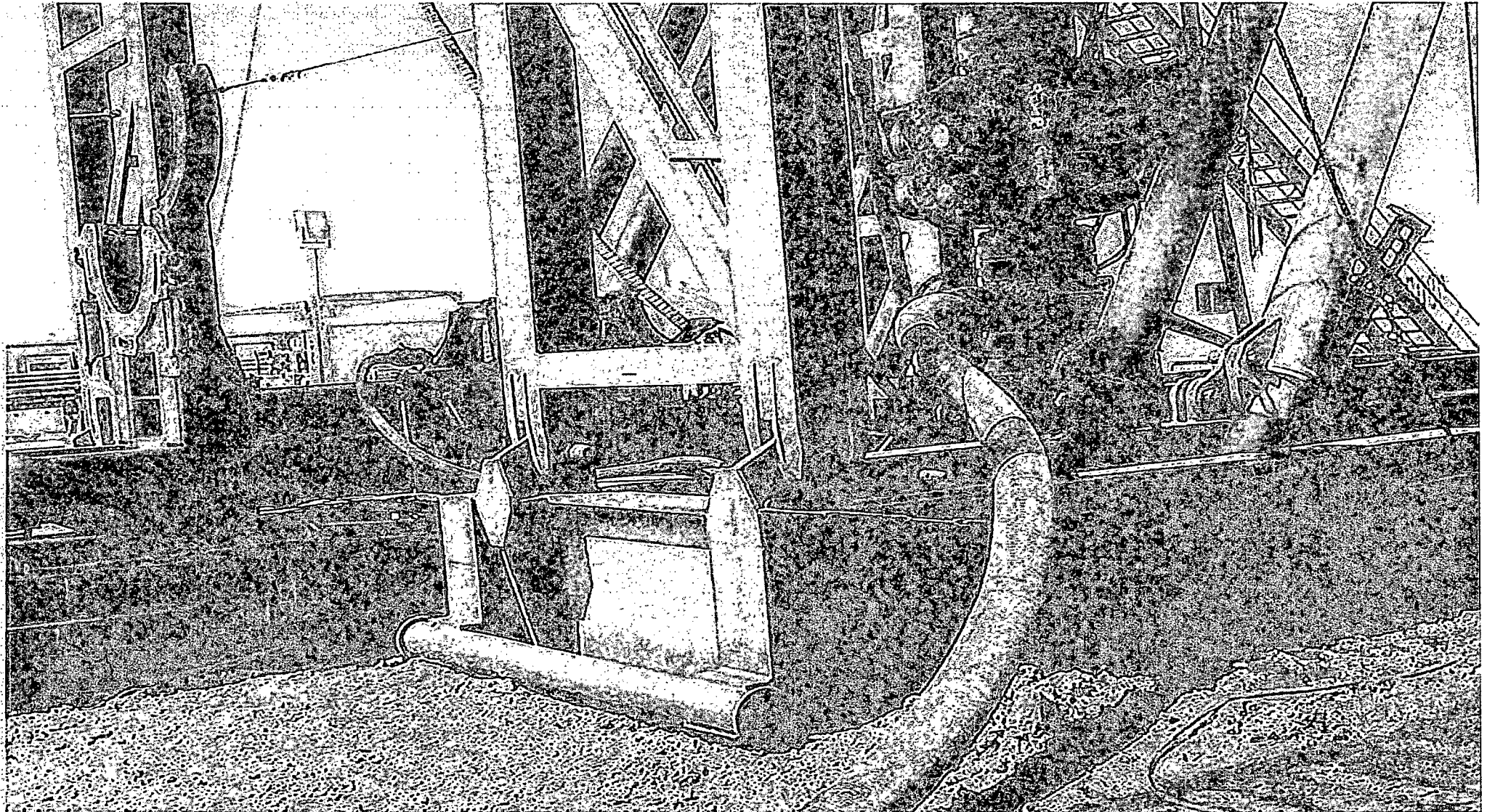


Exhibit F – Co-Flex Hose
Hanson 26 Federal Com 5H
Cimarex Energy Co.
26-20S-34E
SHL 330 FNL & 480 FEL
BHL 330 FSL & 540 FEL
Lea County, NM





Midwest Hose
& Specialty, Inc.

Exhibit F -3- Co-Flex Hose
Hanson 26 Federal Com 5H
Cimarex Energy Co.
26-20S-34E
SHL 330 FNL & 480 FEL
BHL 330 FSL & 540 FEL
Lea County, NM

Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium components. The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male threads, hubs, hammer unions or other special fittings upon request. Hose assembly is manufactured to API 7K. This assembly is wrapped with fire resistant vermiculite coated fiberglass insulation, rated at 2000 degrees with stainless steel armor cover.

Working Pressure:	5,000 or 10,000 psi working pressure
Test Pressure:	10,000 or 15,000 psi test pressure
Reinforcement:	Multiple steel cables
Cover:	Stainless Steel Armor
Inner Tube:	Petroleum resistant, Abrasion resistant
End Fitting:	API flanges, API male threads, threaded or butt weld hammer unions, unbolt and other special connections
Maximum Length:	110 Feet
ID:	2-1/2", 3", 3-1/2", 4"
Operating Temperature:	-22 deg F to +180 deg F (-30 deg C to +82 deg C)



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

March 3, 2011

Customer: Houston

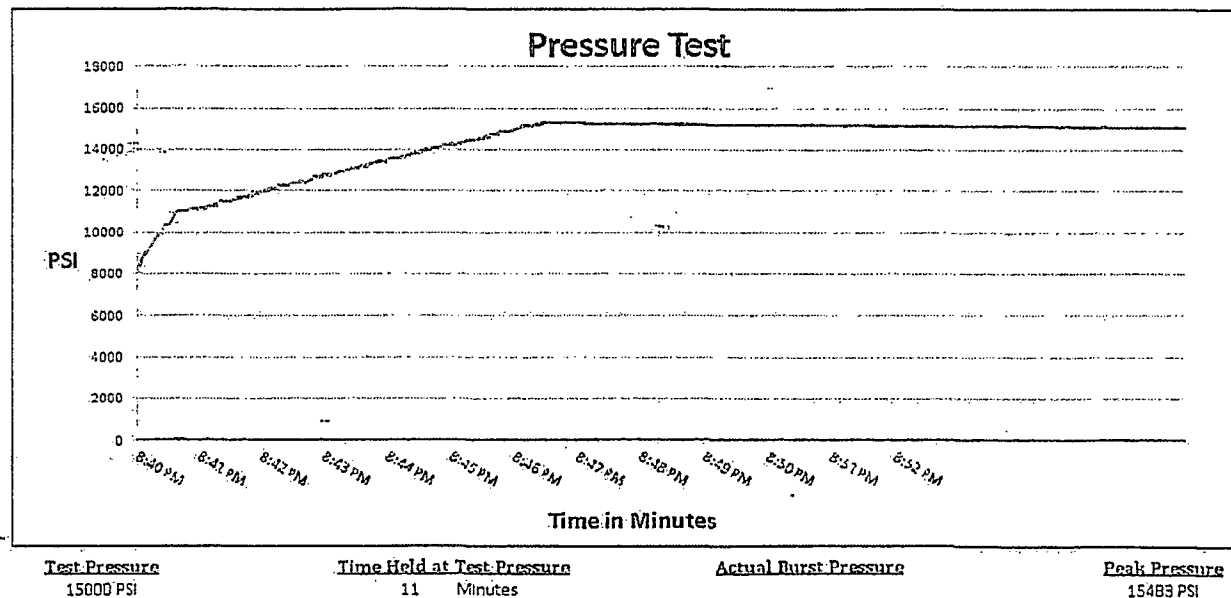
Pick Ticket #: 94260

Hose Specifications:

Hose Type	Length
C & K	45'
I.D.	O.D.
4"	6.09"
Working Pressure	Burst Pressure
10000 PSI	Standard Safety Multiplier Applies

Verification

Type of Fitting	Coupling Method
41/16 10K	Swage
Die Size	Final O.D.
6.38"	6.25"
Hose Serial #	Hose Assembly Serial #
5544	79793



Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Zac McConnell

Approved By: Kim Thomas

[Signature]

[Signature]

Exhibit F-1 - Co-Flex Hose Hydrostatic Test

Hanson 26 Federal Com 5H

Cimarex Energy Co.

26-20S-34E

SHL 330 FNL & 480 FEL

BHL 330 FSL & 540 FEL

Lea County, NM

Exhibit F-2 – Co-Flex Hose
Hanson 26 Federal Com 5H
Cimarex Energy Co.
26-20S-34E
SHL 330 FNL & 480 FEL
BHL 330 FSL & 540 FEL
Lea County, NM



Midwest Hose & Specialty, Inc.

Certificate of Conformity

Customer:

DEM

PO

ODYD-271

SPECIFICATIONS

Sales Order

79793

Dated:

3/8/2011

We hereby certify that the material supplied
for the referenced purchase order to be true
according to the requirements of the purchase
order and current industry standards

Supplier:
Midwest Hose & Specialty, Inc.
10640 Tanner Road
Houston, Texas 77041

Comments:

Approved:

James Garcia

Date:

3/8/2011

Exhibit F-1 – Co-Flex Hose Hydrostatic Test

Hanson 26 Federal Com 5H

Cimarex Energy Co.

26-20S-34E

SHL 330 FNL & 480 FEL

BHL 330 FSL & 540 FEL

Lea County, NM



Midwest Hose
& Specialty, Inc.

INTERNAL HYDROSTATIC TEST REPORT

Customer:

Oderco Inc

P.O. Number:

odyd-271

HOSE SPECIFICATIONS

Type: Stainless Steel Armor
Choke & Kill Hose

Hose Length: 45'ft.

I.D. 4 INCHES

O.D. 9 INCHES

WORKING PRESSURE

TEST PRESSURE

BURST PRESSURE

10,000 PSI

15,000 PSI

0 PSI

COUPLINGS

Stem Part No.

OKC
OKC

Ferrule No.

OKC
OKC

Type of Coupling:

Swage-It

PROCEDURE

Hose assembly pressure tested with water at ambient temperature.

TIME HELD AT TEST PRESSURE

ACTUAL BURST PRESSURE:

15 MIN.

0 PSI

Hose Assembly Serial Number:

79793

Hose Serial Number:

OKC

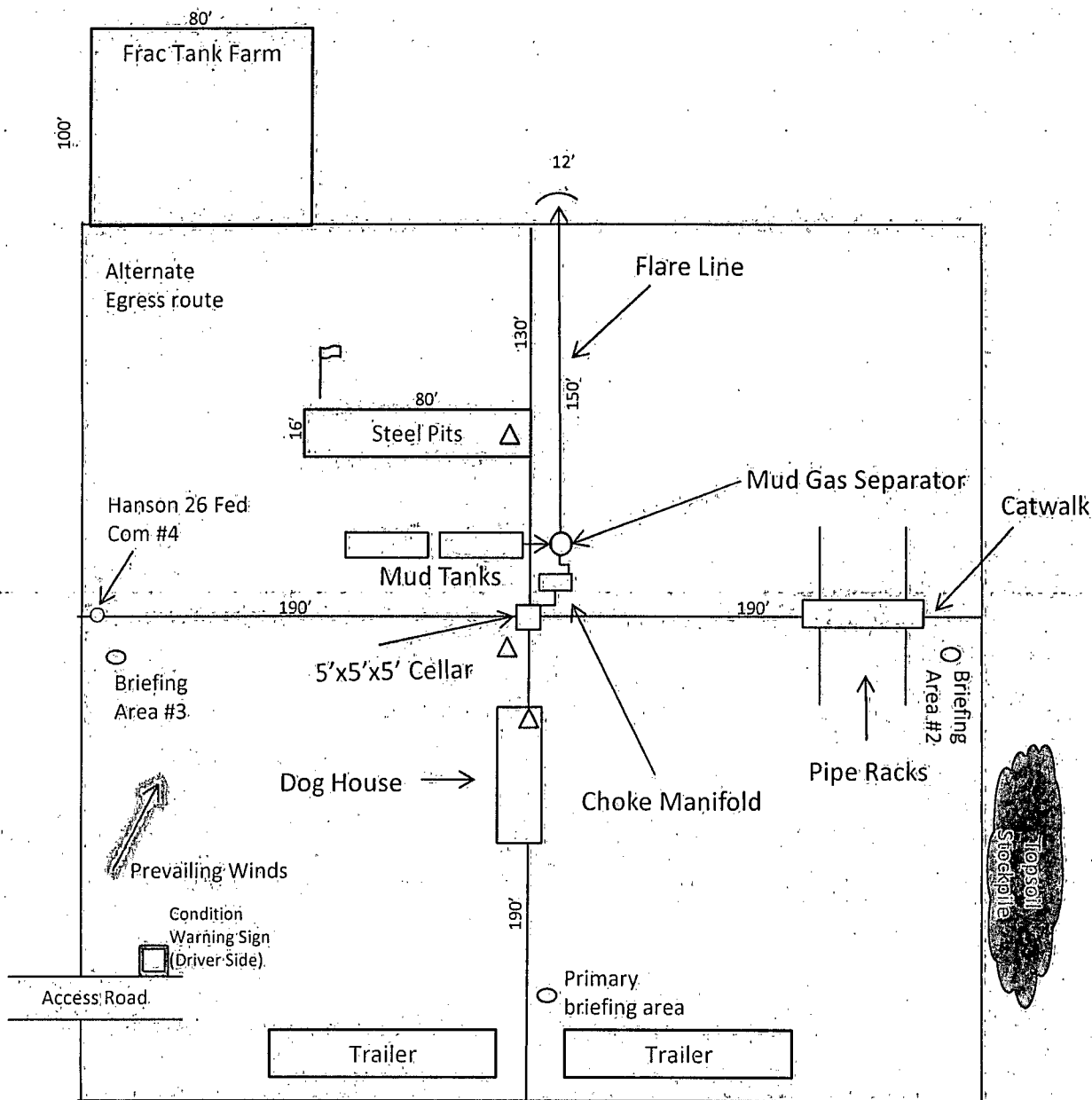
Comments:

Date:

3/8/2011

Tested:

Approved:



Wind Direction Indicators
(wind sock or streamers)



• H2S Monitors
(alarms at bell nipple and shale shaker)



Briefing Areas



Exhibit D – Rig Diagram
Hanson 26 Federal Com 5H
 Cimarex Energy Co.
 26-20S-34E
 SHL 330 FNL & 480 FEL
 BHL 330 FSL & 540 FEL
 Lea County, NM