Hilcorp Energy Company **State 14-9BH** SHL: 150' FSL 690' FWL (SW/4 SW/4) BHL: ±600' FNL ±600' FWL (NW/4 NW/4) Sec. 9 T3N R62W Weld County, Colorado Surface: Fee Mineral Lease: ST – 7873.3

CONFIDENTIAL

DRILLING PROGRAM

Please contact Mr. John McKnight with Hilcorp at 713-289-2755, if there are any questions or concerns regarding this Drilling Program.

WELL OBJECTIVES

(1) Drill and case each wellbore with no health, safety, or environmental impact.

(2) Optimize drilling efficiency by utilizing best drilling practices and input from entire drill team. Communicate best practices to Hilcorp so they can be included in the design of future wellbores.

<u>SURFACE ELEVATION</u> – 4,631' (Un-graded ground elevation)

SURFACE FORMATION – Parkman

	TVD	MD	
Parkman	0'	0'	
Sussex	3,945'	3,945'	
Niobrara	6,134'	6,216'	Water, Oil & Gas
Niobrara B	6,291'	6,683'	Water, Oil & Gas
Pilot Hole:			
Niobrara C	6,315'		Water, Oil & Gas
Fort Hayes	6,374'		
Carlisle	6,399'		
Total Depth	6,575'	10,631'	

ESTIMATED FORMATION TOPS

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and protected.

HORIZONTAL DRILLING PROGRAM

- A) Kick-Off-Point (KOP) is estimated to be at 5,575' TVD.
- B) A non-productive test for evaluation purposes will be run in the pilot-hole (vertical portion) from 6,000-6,575' TVD. After the pilot hole is tested a cement plug will be set.
- C) The horizontal portion of the well will kick off at 5,575' TVD, the curve and lateral will be drilled, and production casing will run the distance of the horizontal leg +/- 10,631 ft.

CASING PROGRAM

Total Measured Depth (MD)	Hole Diameter	Casing Diameter	Casing Weight And Grade	Cement
0'- 40'	24"	20"	Conductor Casing	Redimix to surface
Surface 0' - 2,000'	17-1/2"	13-3/8"	K-55 54.5 lbm/ft	Lead: +/- 870 sks Swiftcem B2 Tail +/- 410 sks Swiftcem B2*
Intermediate 0' – 5,500'	12-1/4"	9-5/8"	K-55 36 lbm/ft	Lead +/- 580 sks Extendacem Tail +/- 280 sks Extendacem**
Horizontal Production 0' – 10,631'	8-1/2"	5-1/2"	HCP 110 20 lbm/ft	Lead +/- 1035 sks Expandacem**

* Cement volume calculated based on gauge hole plus 100%.

** Cement volume calculated based on gauge hole plus 35%.

Yields:	Surface:	Lead:	Swiftcem B2 =	2.42 ft ³ /sk (12.0 ppg) 14.36 gal/sk
		Tail:	Swiftcem B2 =	1.72 ft ³ /sk (13.5 ppg) 9.09 gal/sk
	Intermediate:	Lead:	Extendacem =	2.03 ft ³ /sk (11.8 ppg) 11.08 gal/sk
		Tail:	Extendacem =	1.69 ft ³ /sk (12.5 ppg) 8.54 gal/sk
	Production:	Lead:	Extendacem =	1.67 ft ³ /sk (13.8 ppg) 7.75 gal/sk

PRESSURE CONTROL

• See attached blowout preventer diagram.

BOPs and choke manifold will be installed and pressure tested before drilling out of surface casing (subsequent pressure test will be performed whenever pressure seals are broken), and then will be checked daily as to mechanical operating condition. BOPs will be pressure tested at least once every 30 days. Ram type preventers and related pressure control equipment will be pressure tested to related working pressure of the stack assembly if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or 70% of the minimum internal yield of the casing, whichever is less. Annular type preventers will be pressure tested to 50% of their working pressure. All casing strings will be pressure tested to 0.22 psi/ft or 1,500 psi, whichever is greater, not to exceed 70% of the internal yield. If a 5M system or greater is used, the casing shoe will be tested by drilling 5-20' out from under the shoe and pressure tested to a maximum expected mud weight equivalent as shown in the mud program listed below.

A manual locking device (i.e. hand wheels) or automatic locking devices shall be installed on the BOP stack. Remote controls capable of both opening and closing all preventers shall be readily accessible to the driller.

The choke manifold and accumulator will meet or exceed Onshore Order No. 2 (OSO #2) standards. The BOP equipment will be tested after any repairs to the equipment. Pipe rams, blind rams and annular preventer will be activated on each trip and weekly BOP drills will be conducted with each crew. All tests, maintenance, and BOP drills will be documented on rig "tower sheets".

Statement of Accumulator System and Location of Hydraulic Controls

The drilling rig has not been selected for this well. Selection will take place after approval of this application is granted. Manual and/or hydraulic controls will be in compliance with OSO #2 for 5,000 psi system.

A remote accumulator will be used. Pressures, capacities, location of remote hydraulic and manual controls will be identified at a later time.

MUD PROGRAM

0' - 2,000'	Spud Mud
	w/ LCM material, if necessary
	M.W.: <9.0 ppg
2,000' - TD	Water Based Mud
	w/ calcium carbonate, barium sulfate, and LCM material,
	if necessary
	M.W.: <9.0 ppg

Sufficient mud materials to maintain mud properties, control lost circulation and to contain a "kick" will be available on location.

AUXILIARY EQUIPMENT

- A. Upper Kelly cock; lower Kelly cock will be installed while drilling and tested with 5,000 psi BOP.
- B. Inside BOP or stabbing valve with handle (available on rig floor).
- C. Safety valve(s) and subs to fit all string connections in use.
- D. Mud monitoring will be with a flow sensor, pit level indicator, and visually observation.

LOGGING, CORING TESTING PROGRAM

- A. Gamma Ray, Resistivity, Neutron/Density Porosity, Quad combo, Crossed Dipole Sonic.
- B. Coring: Possible 200' core.
- C. Testing: None planned Drill Stem tests may be run on shows of interest.

ABNORMAL CONDITIONS

- A. Pressures: No abnormal conditions are anticipated.
 - Anticipated BHP gradient: 0.45 psi/ft
- B. Temperatures: No abnormal conditions are anticipated.
- C. H_2S : None Anticipated.
- D. Estimated bottom hole pressure: 2,959 psi

ANTICIPATED START DATE

May 1, 2012

Hilcorp Energy Company **State of Colorado 14-9BH** SHL: 150' FSL 690' FWL (SW/4 SW/4) BHL: ±600' FNL ±600' FWL (NW/4 NW/4) Sec. 9 T3N R62W Weld County, Colorado Surface: Fee Mineral Lease: ST-7873.3

SURFACE CASING AND CENTRALIZER DESIGN

Hydrostatic Head of gas	dient: t x 6,575 ' = /oil mud: x 6,575 ' =	6,575 ' 2,000 ' 0.45 psi/ft 6,575 ' 2,959 psi 0.22 psi/ft 1,447 psi		
Bottom Hole		Hydrostatic I	- beat	
		0.22 psi/ft x		
(0.45 psint 2 2,959	psi –		-	1,512 psi
Casing Strengths	13-3/8" 54.5#			
Wt.	Tension (lbs)	Burst	(psi) Co	ollapse (psi)
54.5 #	547,000		730	1,130
61 #	633,000	3,0	090	1,540
Safety Factors				
Tension (Dry):	1.8 Bu	rst: 1.0	Collapse:	1.125
Tension (Dry):	54.5 #/ft x	2,000 ' =	109,000 #	
	Safety Factor =	<u>547,000</u> = 109,000	5.02	ok
Burst:	Safety Factor =	2,730 psi = 1,512 psi	1.81	ok
Collapse:	Hydrostatic =	0.052 x 9.0 ppg x	2,000 '= 93	6 psi
·	Safety Factor =	1,130 psi = 936 psi	1.21	ok
Use <u>2,000 '</u>	13-3/8" 54.5#			
Use <u>2,000 p</u>	si minimum casingh	ead and BOP's		
	8 Total 1 near surface at 3 -1 each at middle	160' of bottom joint, seco	nd joint, third joint	

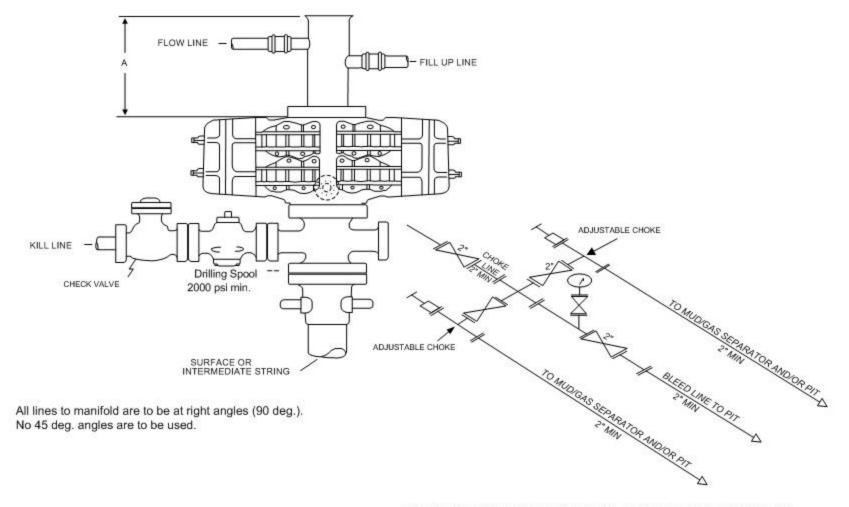
3 -1 each at middle of bottom joint, second joint, third joint

4 -1 each at every other joint ±80 ' spacing

Total centralized ± 600 ' (1,400 ' - 2,000 ')

Note that field experience indicates that additional centralizers greatly increase the chance of "sticking" the surface casing prior to reaching surface casing total depth.

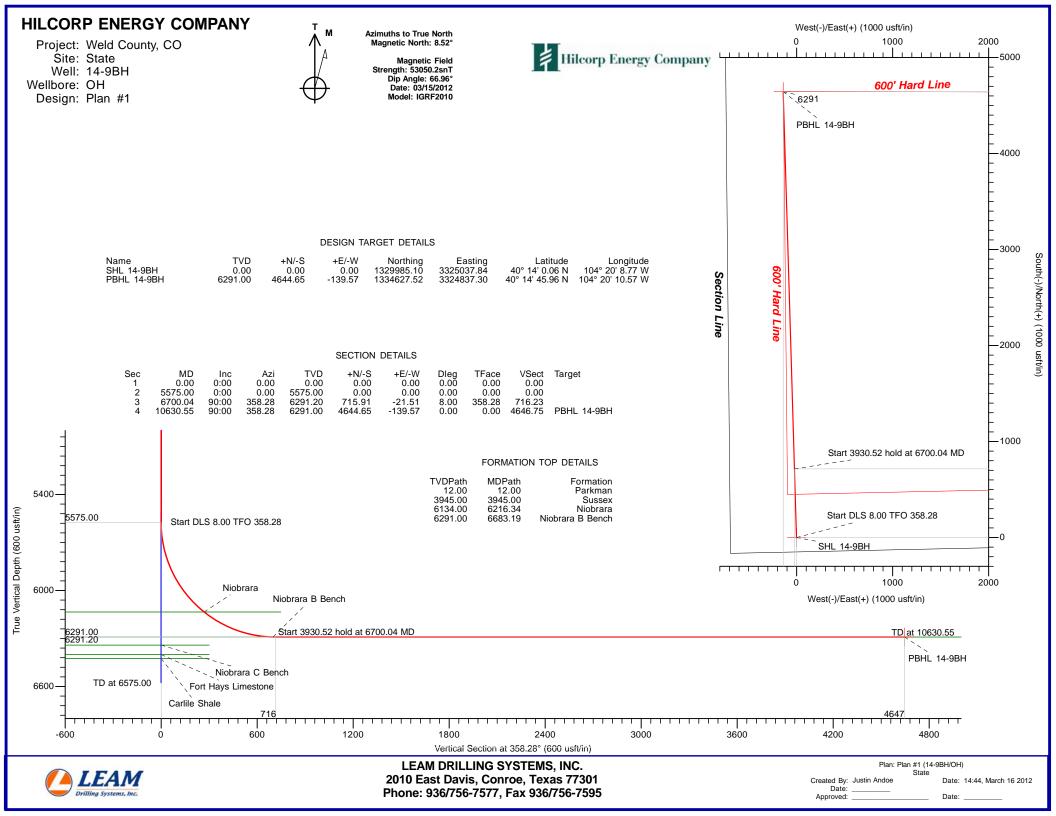
ANNULAR PREVENTER MAY BE SUBSTITUTED FOR DOUBLE GATE PREVENTERS

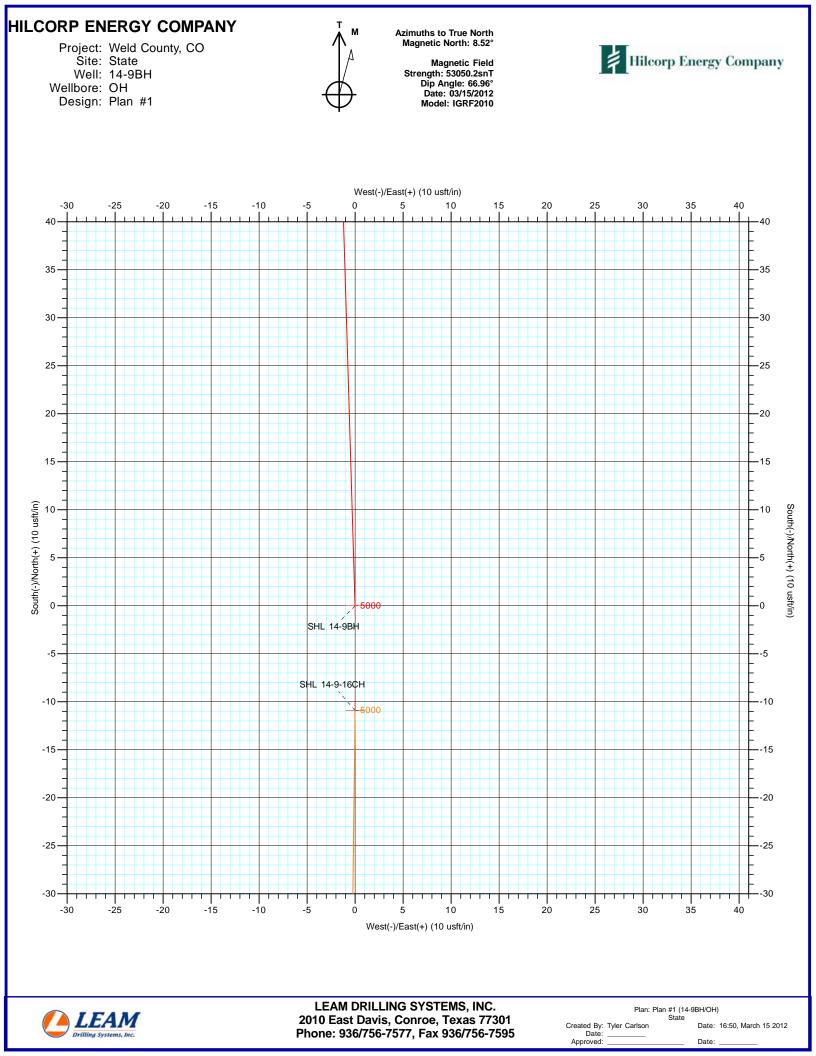


2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION MAY VARY

BLOWOUT PREVENTER

2,000 psi minimum





Database: Company: Project: Site: Well: Wellbore: Design:	HILCO				TVD Refer MD Refere North Ref	ence:		Well 14-9BH GL 4629.8+KB GL 4629.8+KB True Minimum Curva	12.2' @ 4642.0	
Project	Weld C	ounty, CO								
Map System: Geo Datum: Map Zone:	North An	e Plane 1983 nerican Datum o Northern Zone			System Dat	tum:	M	ean Sea Level		
Site	State									
Site Position: From: Position Uncertai		Long 0.00	North Eastin Uusft Slot F	•	,	,974.18 usft ,037.98 usft 13-3/16 "	Latitude: Longitude: Grid Converg	jence:		40° 13' 59.95 N 104° 20' 8.77 W 0.75 °
Well	14-9BH									
Well Position	+N/-S			orthing:		1,329,985.10		itude:		40° 14' 0.06 N
Position Uncertai	+E/-W			ellhead Elevation	1:	3,325,037.84		ngitude: ound Level:		104° 20' 8.77 W 4,629.80 usft
Wellbore	OH									
Magnetics	Ма	del Name	Samp	e Date	Declina (°)	ition		Angle °)		trength T)
		IGRF2010		03/15/12		8.52		66.96		53,050
Design	Plan #1	1								
Audit Notes:										
Version:			Phas	e: PRO	DTOTYPE	Tie	On Depth:		0.00	
Vertical Section:		D	epth From (T (usft)	VD)	+N/-S (usft)		/-W sft)		ection (°)	
			0.00		0.00	0.			58.28	
Plan Sections										
	nclination deg:min)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00 5,575.00	0:00 0:00	0.00 0.00	0.00 5,575.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
6,700.04 10,630.55	90:00 90:00	358.28 358.28	6,291.20 6,291.00	715.91 4,644.65	-21.51 -139.57	8.00 0.00	8.00 0.00	-0.15	358.28	PBHL 14-9BH

Database:	EDM 5000.1 Multi_User Db	Local Co-ordinate Reference:	Well 14-9BH
Company:	HILCORP ENERGY COMPANY	TVD Reference:	GL 4629.8+KB 12.2' @ 4642.00usft
Project:	Weld County, CO	MD Reference:	GL 4629.8+KB 12.2' @ 4642.00usft
Site:	State	North Reference:	True
Well:	14-9BH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (deg:min)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	- SHL 14-9-16CH								
12.00	0:00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00
Parkman									
100.00	0:00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0:00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0:00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0:00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0:00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0:00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0:00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0:00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0:00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0:00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0:00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0:00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0:00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1.400.00	0:00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0:00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0:00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0:00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0:00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0:00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0:00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00 2,200.00	0:00 0:00	0.00 0.00	2,100.00 2,200.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,200.00	0:00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0:00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0:00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0:00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0:00	0.00	2,700.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00
2,800.00	0:00	0.00	2,800.00	0.00	0.00	0.00		0.00	0.00
2,900.00	0:00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0:00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0:00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0:00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0:00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0:00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0:00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0:00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0:00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0:00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0:00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,945.00	0:00	0.00	3,945.00	0.00	0.00	0.00	0.00	0.00	0.00
Sussex									
4,000.00	0:00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0:00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0:00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0:00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0:00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0:00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0:00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0:00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00

Database:	EDM 5000.1 Multi_User Db	Local Co-ordinate Reference:	Well 14-9BH
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Site:	State	North Reference:	True
Well:	14-9BH	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (deg:min)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.00	0:00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0:00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0:00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0:00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0:00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0:00 0:00	0.00 0.00	5,300.00 5,400.00	0.00 0.00	0.00 0.00	0.00	0.00 0.00	0.00	0.00
5,400.00			,			0.00		0.00	0.00
5,500.00	0:00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,575.00	0:00	0.00	5,575.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	2:00	358.28	5,600.00	0.44	-0.01	0.44	8.00	8.00	0.00
5,650.00	6:00	358.28	5,649.86	3.92	-0.12	3.92	8.00	8.00	0.00
5,700.00	10:00	358.28	5,699.37	10.88	-0.33	10.88	8.00	8.00	0.00
5,750.00	14:00	358.28	5,748.26	21.26	-0.64	21.27	8.00	8.00	0.00
5,800.00	18:00	358.28	5,796.32	35.04	-1.05	35.05	8.00	8.00	0.00
5,850.00	22:00	358.28	5,843.29	52.13	-1.57	52.15	8.00	8.00	0.00
5,900.00	26:00	358.28	5,888.96	72.45	-2.18	72.48	8.00	8.00	0.00
5,950.00	30:00	358.28	5,933.10	95.91	-2.88	95.95	8.00	8.00	0.00
6,000.00	34:00	358.28	5,975.49	122.39	-3.68	122.44	8.00	8.00	0.00
6,050.00	38:00	358.28	6,015.94	151.76	-4.56	151.83	8.00	8.00	0.00
6,100.00	42:00	358.28	6,054.23	183.88	-5.53	183.96	8.00	8.00	0.00
6,150.00	46:00	358.28	6.090.19	218.59	-6.57	218.68	8.00	8.00	0.00
6,200.00	50:00	358.28	6,123.64	255.72	-7.68	255.83	8.00	8.00	0.00
6,216.34	51:18	358.28	6,134.00	268.35	-8.06	268.47	8.00	8.00	0.00
Niobrara			.,						
6,250.00	54:00	358.28	6.154.42	295.09	-8.87	295.23	8.00	8.00	0.00
6,300.00	58:00	358.28	6,182.37	336.52	-10.11	336.67	8.00	8.00	0.00
6,350.00	62:00	358.28	6,207.36	379.79	-11.41	379.96	8.00	8.00	0.00
6,400.00	66:00	358.28	6,229.28	424.70	-12.76	424.89	8.00	8.00	0.00
	70:00	358.28	6,248.01	471.03	-14.15	471.24	8.00	8.00	0.00
6,500.00	74:00	358.28	6,263.45	518.55	-15.58	518.79	8.00	8.00	0.00
6,550.00	78:00	358.28	6,275.55	567.04	-17.04	567.29	8.00	8.00	0.00
6,600.00	82:00	358.28	6,284.23	616.24	-18.52	616.52	8.00	8.00	0.00
6,650.00	86:00	358.28	6,289.45	665.94	-20.01	666.24	8.00	8.00	0.00
6,683.19	88:39	358.28	6,291.00	699.07	-21.01	699.39	8.00	8.00	0.00
6,700.04	ench 90:00	358.28	6,291.20	715.91	-21.51	716.23	8.00	8.00	0.00
6,800.00	90:00	358.28	6,291.19	815.83	-21.51	816.20	0.00	0.00	0.00
6,900.00	90:00	358.28	6,291.19	915.78	-27.52	916.20	0.00	0.00	0.00
7,000.00	90:00	358.28	6,291.18	1,015.74	-30.52	1,016.20	0.00	0.00	0.00
7,100.00	90:00	358.28	6,291.18	1,115.69	-33.53	1,116.20	0.00	0.00	0.00
7,200.00	90:00	358.28	6,291.17	1,215.65	-36.53	1,216.20	0.00	0.00	0.00
7,300.00	90:00	358.28	6,291.17	1,315.60	-39.53	1,316.20	0.00	0.00	0.00
7,400.00	90:00	358.28	6,291.16	1,415.56	-42.54	1,416.20	0.00	0.00	0.00
7,500.00	90:00	358.28	6,291.16	1,515.51	-45.54	1,516.20	0.00	0.00	0.00
7,600.00	90:00	358.28	6,291.15	1,615.47	-48.54	1,616.20	0.00	0.00	0.00
7,700.00	90:00	358.28	6,291.15	1,715.42	-51.55	1,716.20	0.00	0.00	0.00
7,800.00	90:00	358.28	6,291.14	1,815.38	-54.55	1,816.20	0.00	0.00	0.00
7,900.00	90:00	358.28	6,291.14	1,915.33	-57.56	1,916.20	0.00	0.00	0.00
8,000.00	90:00	358.28	6,291.13	2,015.29	-60.56	2,016.20	0.00	0.00	0.00
8,100.00	90:00	358.28	6,291.13	2,115.24	-63.56	2,116.20	0.00	0.00	0.00
8,200.00	90:00	358.28	6,291.12	2,215.20	-66.57	2,216.20	0.00	0.00	0.00
8,300.00	90:00	358.28	6,291.12	2,315.15	-69.57	2,316.20	0.00	0.00	0.00
8,400.00	90:00	358.28	6,291.11	2,415.11	-72.57	2,416.20	0.00	0.00	0.00
8,500.00	90:00	358.28	6,291.11	2,515.06	-75.58	2,516.20	0.00	0.00	0.00

Database:	EDM 5000.1 Multi_User Db	Local Co-ordinate Reference:	Well 14-9BH
Company:	HILCORP ENERGY COMPANY	TVD Reference:	GL 4629.8+KB 12.2' @ 4642.00usft
Project:	Weld County, CO	MD Reference:	GL 4629.8+KB 12.2' @ 4642.00usft
Site:	State	North Reference:	True
Well:	14-9BH	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (deg:min)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,600.00	90:00	358.28	6,291.10	2,615.02	-78.58	2,616.20	0.00	0.00	0.00
8,700.00	90:00	358.28	6,291.10	2,714.97	-81.58	2,716.20	0.00	0.00	0.00
8,800.00	90:00	358.28	6,291.09	2,814.93	-84.59	2,816.20	0.00	0.00	0.00
8,900.00	90:00	358.28	6,291.09	2,914.88	-87.59	2,916.20	0.00	0.00	0.00
9,000.00	90:00	358.28	6,291.08	3,014.84	-90.60	3,016.20	0.00	0.00	0.00
9,100.00	90:00	358.28	6,291.08	3,114.79	-93.60	3,116.20	0.00	0.00	0.00
9,200.00	90:00	358.28	6,291.07	3,214.75	-96.60	3,216.20	0.00	0.00	0.00
9,300.00	90:00	358.28	6,291.07	3,314.70	-99.61	3,316.20	0.00	0.00	0.00
9,400.00	90:00	358.28	6,291.06	3,414.66	-102.61	3,416.20	0.00	0.00	0.00
9,500.00	90:00	358.28	6,291.06	3,514.61	-105.61	3,516.20	0.00	0.00	0.00
9,600.00	90:00	358.28	6,291.05	3,614.57	-108.62	3,616.20	0.00	0.00	0.00
9,700.00	90:00	358.28	6,291.05	3,714.52	-111.62	3,716.20	0.00	0.00	0.00
9,800.00	90:00	358.28	6,291.04	3,814.48	-114.62	3,816.20	0.00	0.00	0.00
9,900.00	90:00	358.28	6,291.04	3,914.43	-117.63	3,916.20	0.00	0.00	0.00
10,000.00	90:00	358.28	6,291.03	4,014.39	-120.63	4,016.20	0.00	0.00	0.00
10,100.00	90:00	358.28	6,291.03	4,114.34	-123.64	4,116.20	0.00	0.00	0.00
10,200.00	90:00	358.28	6,291.02	4,214.30	-126.64	4,216.20	0.00	0.00	0.00
10,300.00	90:00	358.28	6,291.02	4,314.25	-129.64	4,316.20	0.00	0.00	0.00
10,400.00	90:00	358.28	6,291.01	4,414.20	-132.65	4,416.20	0.00	0.00	0.00
10,500.00	90:00	358.28	6,291.01	4,514.16	-135.65	4,516.20	0.00	0.00	0.00
10,600.00	90:00	358.28	6,291.00	4,614.11	-138.65	4,616.20	0.00	0.00	0.00
10,630.55	90:00	358.28	6,291.00	4,644.65	-139.57	4,646.75	0.00	0.00	0.00
PBHL 14-9BH	4								

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (deg:min)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL 14-9BH - plan hits target ce - Point	0:00 enter	0.00	0.00	0.00	0.00	1,329,985.10	3,325,037.84	40° 14' 0.06 N	104° 20' 8.77 W
PBHL 14-9BH - plan hits target ce - Point	0:00 enter	0.00	6,291.00	4,644.65	-139.57	1,334,627.52	3,324,837.30	40° 14' 45.96 N	104° 20' 10.57 W

Formations					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Dip (°)	Dip Direction (°)
	12.00	12.00	Parkman	0.00	
	3,945.00	3,945.00	Sussex	0.00	
	6,216.34	6,134.00	Niobrara	0.00	
	6,683.19	6,291.00	Niobrara B Bench	0.00	