

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM117126

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
TALCO 9 26 35 FEDERAL 2H9. API Well No.
30-025-42547-00-X110. Field and Pool, or Exploratory
WC-025 G09 S253509D11. County or Parish, and State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

CHEVRON USA INCORPORATED

Contact: DENISE PINKERTON

E-Mail: leakejd@chevron.com

3a. Address

15 SMITH ROAD
MIDLAND, TX 79705

3b. Phone No. (include area code)

Ph: 432-687-7375

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 9 T26S R35E SWSE 235FSL 1980FEL
32.051061 N Lat, 103.369819 W Lon

JUN 10 2015

RECEIVED

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat.	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

PLEASE FIND ATTACHED, A NEW 9 PT DRILLING PLAN TO INCLUDE OIL BASED MUD, AND A NEW DIRECTIONAL PLAN TO SHOW PILOT HOLE, FOR THE SUBJECT NEW DRILL.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #302297 verified by the BLM Well Information System
For CHEVRON USA INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by CHRISTOPHER WALLS on 06/03/2015 (15CRW0066SE)

Name (Printed/Typed) DENISE PINKERTON

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 05/20/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

Title 18 U.S.C. 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.

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

JUN 11 2015

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA	KBTVD	MD
Rustler	2166	1037	
Magenta Dolomite	2119	1084	
Salado	1884	1319	
Castile	-432	3635	
Lamar	-2094	5297	
Bell Canyon	-2140	5343	
Cherry Canyon	-3123	6326	
Brushy Canyon	-4615	7818	
Bone Spring Limestone	-5995	9198	
1st Bone Spring	-7192	10395	
2nd Bone Spring	-7990	11193	
3rd Bone Spring	-8998	12201	
Pilot TD	-9626	12786	12786
Lateral TD (3rd Bone Spring)	(9,388)	12,591	17157

2. ESTIMATED DEPTH OF WATER, OIL, GAS & OTHER MINERAL BEARING FORMATIONS

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	Depth
Deepest Expected Base of Fresh Water		1,084
Water	Rustler	1037
Water	Bell Canyon	5343
Water	Cherry Canyon	6326
Oil/Gas	Brushy Canyon	7818
Oil/Gas	Bone Spring Limestone	9198
Oil/Gas	1st Bone Spring	10395
Oil/Gas	2nd Bone Spring	11193
Oil/Gas	3rd Bone Spring	12201
Oil/Gas	Wolfcamp A	12666

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

3. BOP EQUIPMENT

Will have a minimum of a 5000 psi rig stack (see proposed schematic) for drill out below surface casing. Stack will be tested as specified in the attached testing requirements. Chevron requests a variance to use A coflex hose with a metal protective covering that will be utilized between the BOP and Choke manifold. Please see the attached testing and certification information.

Chevron requests a variance to use a GE/Vetco SH-2 Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nipped up and test after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from GE/Vetco and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal.

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Purpose	From	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	1,140'	17-1/2"	13-3/8"	54.5 #	J-55	STC	New
Intermediate	0'	9,800'	12-1/4"	9-5/8"	43.5 #	HCP-110	LTC	New
Production	0'	17,157'	8-1/2"	5-1/2"	20.0 #	HCP-110	CDC	New

b. Casing design subject to revision based on geologic conditions encountered.

c. ***A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be recalculated & sent to the BLM prior to drilling.

d. Chevron will fill casing at a minimum of every 20 jts (840') while running for intermediate and production casing in order to maintain collapse SF.

SF Calculations based on the following "Worst Case" casing design.

Surface Casing: 1500'

Intermediate Casing: 9300

Production Casing: 17500' MD/13000' TVD (5000' VS @ 90 deg inc)

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension
Surface	1.2	1.2	1.6
Deep Intermediate	1.2	1.2	1.6
Production	1.2	1.2	1.6

Min SF is the smallest of a group of safety factors that include the following considerations:

	Surf	Int	Prod
Burst Design			
Pressure Test- Surface, Int, Prod Csg P external: Water P internal: Test psi + next section heaviest mud in csg	X	X	X
Displace to Gas- Surf Csg P external: Water P internal: Dry Gas from Next Csg Point	X		
Frac at Shoe, Gas to Surf- Int Csg P external: Water P internal: Dry Gas, 15 ppg Frac Gradient		X	
Stimulation (Frac) Pressures- Prod Csg P external: Water P internal: Max inj pressure w/ heaviest injected fluid			X
Tubing leak- Prod Csg (packer at KOP) P external: Water P internal: Leak just below surf, 8.7 ppg packer fluid			X
Collapse Design			
Full Evacuation P external: Water gradient in cement, mud above TOC P internal: none	X	X	X
Cementing- Surf, Int, Prod Csg P external: Wet cement P internal: water	X	X	X
Tension Design			
100k lb overpull	X	X	X

5. CEMENTING PROGRAM

Slurry	Type	Top	Bottom	Weight	Yield	%Excess	Sacks	Water
Surface				(ppg)	(sx/cu ft)	Open Hole		gal/sk
Lead	C + 4% Gel+2%CaCl	0'	840'	13.5	1.75	150	786	9.18
Tail	Class C+2%CaCl	840'	1,140'	14.8	1.36	150	441	6.39
Intermediate								
1st Stage Lead	50% Class H+ 50% Silicalite +2% Gel	5,200'	9,200'	11.3	2.54	40	691	15.51
1st Stage Tail	Class C	9,200'	9,800'	14.8	1.33	40	227	6.57
2nd Stage Lead	65C/35Poz +6%Gel +5%Salt	0'	4,900'	12.9	1.87	100	1489	9.87
2nd Stage Tail	Class C	4,900'	5,200'	14.8	1.33	100	141	6.57
Production								
1st Lead	50% Class H+ 50% Silicalite +2% Gel	4,700'	11,614'	11.3	2.54	75	810	15.07
2nd Lead	Versacem (Halliburton)	11,614'	12,864'	13.2	1.61	75	315	8.10
Tail	Acid Soluble Cement	12,864'	17,157'	15	2.6	35	511	11.2

1. Final cement volumes will be determined by fluid caliper.
2. Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.
3. Production casing will have one horizontal type centralizer on every joint for the first 1000' from TD, then every other joint to EOB, and then every third joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing.
4. Intermediate cement job will be performed in 2 stages with a DV tool with at ~5200'. An ECP will be placed below the DV tool and inflated before pumping the 2nd stage

Pilot Hole Plugging Plan:

The 8-1/2" pilot hole will TD in the Wolfcamp Shale at ~12,786' (exact depth of Pilot TD will depend on geologic tops encountered while drilling). An open hole cemented whipstock will be utilized with 2-7/8" tail pipe. The tail 2-7/8" tail pipe will be cemented in place from the Pilot hole TD of 12,786' MD/TVD to the whipstock/KOP at 12114' MD/TVD (KOP subject to change after evaluating Pilot Hole logs).

Plug	Slurry	Type	Top	Bottom	Weight	Yield	%Excess	Sacks	Mix Water
					(ppg)	(sx/cu ft)	Open Hole		Gal/Sk
Pilot Hole Plug	Plug Cement	Class H	12,114'	12,786'	17.2	0.97	35	391	3.61

6. MUD PROGRAM

From	To	Type	Weight	F. Vis	OWR
0'	1,140'	Spud Mud	8.3 - 8.7	32 - 34	NC - NC
1,140'	3,635'	Oil Based Mud	8.8 - 9.0	50 - 60	70 - 30
3,635'	9,800'	Oil Based Mud	8.8 - 9.0	50 - 60	70 - 30
9,800'	12,114'	Oil Based Mud	9.5 - 11.0	55 - 65	70 - 30
12,114'	12,864'	Oil Based Mud	9.5 - 11.0	55 - 65	70 - 30
12,864'	17,157'	Oil Based Mud	9.5 - 11.0	55 - 65	70 - 30

After drilling through the fresh water sands in the 12.25" hole with spud mud, the mud system will be changed to oil based mud to allow for decreased mud weights without excessive salt washout. This has been successfully implemented in previous wells.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

7. TESTING, LOGGING, AND CORING

The anticipated type and amount of testing, logging, and coring are as follows:

- a. Drill stem tests are not planned.
- b. The logging program will be as follows:

TYPE	Logs	Interval	Timing	Vendor
Mudlogs	2 man mudlog	5000' to TD	Drillout of Surf Csg	TBD
LWD	MWD Gamma	Curve and Lateral	While Drilling	TBD
Wireline	Quad Combo	Pilot TD - Int csg shoe	After Pilot hole	TBD
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

- c. No coring is planned
- d. A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

- a. Increased pressure is expected in the base of the 3rd Bone Spring sand and Wolfcamp. No abnormal temperatures are expected. Estimated BHP is: 6875 psi
- b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered



Project: Lea County, NM (NAD27 NME)
Site: Tanco 5-26-35
Well: 2H
Wellbore: Wellbore #2
Design: Plan 1 07-10-14
Rig: Ensign 153



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As shown on Grid North
True North: 8.81°
Magnetic North: 8.81°
Magnetic Field
Dir. Ang. 118.87°
Decl. 100.14

38.0 200' South (Temp 103)
Ground Level 3115.00

WELL DETAILS			
40.5	61.0	3115.00	3115.00
61.0	3115.00	3115.00	3115.00
3115.00	3115.00	3115.00	3115.00

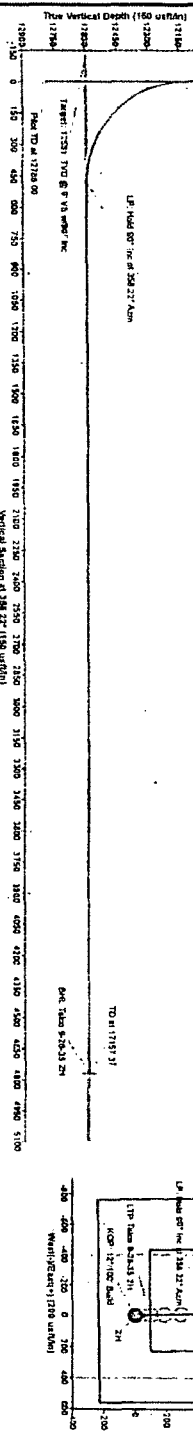
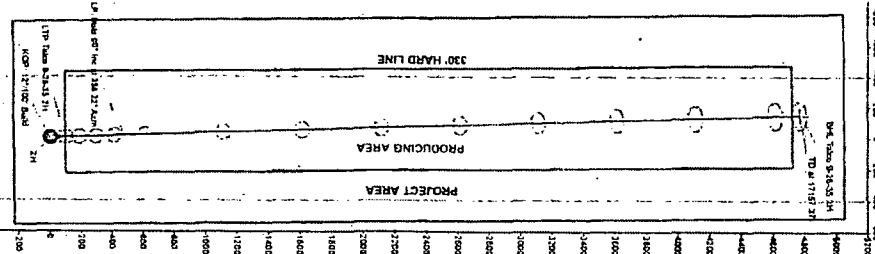
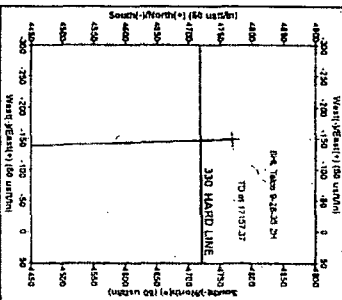
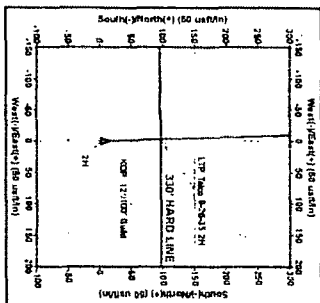
SECTION DETAILS			
1170	1170	1170	1170
1170	1170	1170	1170
1170	1170	1170	1170

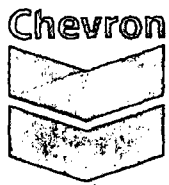
DECK TARGET DETAILS			
1170	1170	1170	1170
1170	1170	1170	1170
1170	1170	1170	1170

Map System: U.S. State Plane 1983
Datum: NAD 83
Zone: 10N
Local Origin: 1000000.00
Scale Factor: 1.000000
Grid East: 1000000.00
Grid North: 1000000.00
Longitude: 107° 27' 10.1218 W
Latitude: 37° 27' 10.1218 N
To convert a True Direction to a Grid Direction, add 8.81°.
To convert a Magnetic Direction to a True Direction, add 8.81°.
To convert a Grid Direction to a Magnetic Direction, subtract 8.81°.

FORMATION TOP DETAILS			
1170	1170	1170	1170
1170	1170	1170	1170
1170	1170	1170	1170

LEGEND
2H Wellbore #2, Plan 1 07-10-14





Chevron

Lea County, NM (NAD27 NME)

Talco 9-26-35

2H

Wellbore #2

Plan: Plan 1 07-10-14

Standard Planning Report

19 May, 2015



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Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 2H
Company:	Chevron	TVD Reference:	KB @ 3202.50usft (Ensign 153)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	KB @ 3202.50usft (Ensign 153)
Site:	Talco 9-26-35	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Plan 1 07-10-14		

Project:	Lea County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Talco 9-26-35		
Site Position:		Northing:	383,633.00 usft
From:	Map	Easting:	798,625.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Grid Convergence:	0.51 "

Well:	2H		
Well Position	+N-S	0.00 usft	Northing:
	+E-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	

Wellbore:	Wellbore #2		
Magnetics:	Model Name	Sample Date	Declination
	HDGM	5/19/2015	6.95
			Dip Angle
			59.82
			Field Strength
			48,089

Design:	Plan 1 07-10-14		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			358.22

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12,113.54	0.00	0.00	12,113.54	0.00	0.00	0.00	0.00	0.00	0.00	
12,863.54	90.00	358.22	12,591.00	477.24	-14.81	12.00	12.00	0.00	358.22	
17,157.37	90.00	358.22	12,591.00	4,769.00	-148.00	0.00	0.00	0.00	0.00	BHL Talco 9-26-35 2H



Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 2H
Company:	Chevron	TVD Reference:	KB @ 3202.50usft (Ensign 153)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	KB @ 3202.50usft (Ensign 153)
Site:	Talco 9-28-35	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Plan 1 07-10-14		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld 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
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
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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
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2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
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2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
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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
2,800.00	0.00	0.00	2,800.00	0.00	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
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
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	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 2H
Company:	Chevron	TVD Reference:	KB @ 3202.50usft (Ensign 153)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	KB @ 3202.50usft (Ensign 153)
Site:	Talco 9-26-35	North Reference:	Grid
Well:	2H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Plan 1 07-10-14		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	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	
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,700.00	0.00	0.00	0.00	0.00	0.00	0.00	



Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 2H
Company:	Chevron	TVD Reference:	KB @ 3202.50usft (Ensign 153)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	KB @ 3202.50usft (Ensign 153)
Site:	Talco 9-28-35	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Plan 1 07-10-14		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,800.00	0.00	0.00	10,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,000.00	0.00	0.00	11,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,100.00	0.00	0.00	11,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,200.00	0.00	0.00	11,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,300.00	0.00	0.00	11,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,400.00	0.00	0.00	11,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,500.00	0.00	0.00	11,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,800.00	0.00	0.00	11,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
12,000.00	0.00	0.00	12,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
12,100.00	0.00	0.00	12,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
12,113.54	0.00	0.00	12,113.54	0.00	0.00	0.00	0.00	0.00	0.00	
KOP: 12°/100' Build										
12,125.00	1.38	358.22	12,125.00	0.14	0.00	0.14	12.01	12.01	0.00	
12,150.00	4.38	358.22	12,149.96	1.39	-0.04	1.39	12.00	12.00	0.00	
12,175.00	7.38	358.22	12,174.83	3.95	-0.12	3.95	12.00	12.00	0.00	
12,200.00	10.38	358.22	12,199.53	7.80	-0.24	7.81	12.00	12.00	0.00	
12,225.00	13.38	358.22	12,223.99	12.95	-0.40	12.95	12.00	12.00	0.00	
12,250.00	16.38	358.22	12,248.15	19.36	-0.60	19.37	12.00	12.00	0.00	
12,275.00	19.38	358.22	12,271.94	27.03	-0.84	27.04	12.00	12.00	0.00	
12,300.00	22.38	358.22	12,295.30	35.93	-1.12	35.95	12.00	12.00	0.00	
12,325.00	25.38	358.22	12,318.15	46.05	-1.43	46.07	12.00	12.00	0.00	
12,350.00	28.38	358.22	12,340.45	57.34	-1.78	57.37	12.00	12.00	0.00	
12,375.00	31.38	358.22	12,362.13	69.79	-2.17	69.82	12.00	12.00	0.00	
12,400.00	34.38	358.22	12,383.12	83.35	-2.59	83.39	12.00	12.00	0.00	
12,425.00	37.38	358.22	12,403.38	97.99	-3.04	98.04	12.00	12.00	0.00	
12,450.00	40.38	358.22	12,422.84	113.67	-3.53	113.73	12.00	12.00	0.00	
12,475.00	43.38	358.22	12,441.45	130.35	-4.05	130.41	12.00	12.00	0.00	
12,500.00	46.38	358.22	12,459.16	147.98	-4.59	148.05	12.00	12.00	0.00	
12,525.00	49.38	358.22	12,475.93	166.51	-5.17	166.59	12.00	12.00	0.00	
12,550.00	52.38	358.22	12,491.70	185.89	-5.77	185.98	12.00	12.00	0.00	
12,575.00	55.38	358.22	12,506.44	206.07	-6.40	206.17	12.00	12.00	0.00	
12,600.00	58.38	358.22	12,520.10	227.00	-7.04	227.11	12.00	12.00	0.00	
12,625.00	61.38	358.22	12,532.64	248.61	-7.72	248.73	12.00	12.00	0.00	
12,650.00	64.38	358.22	12,544.04	270.85	-8.41	270.98	12.00	12.00	0.00	
12,675.00	67.38	358.22	12,554.26	293.65	-9.11	293.79	12.00	12.00	0.00	
12,700.00	70.38	358.22	12,563.27	316.96	-9.84	317.11	12.00	12.00	0.00	
12,725.00	73.38	358.22	12,571.04	340.70	-10.57	340.87	12.00	12.00	0.00	
12,750.00	76.38	358.22	12,577.57	364.82	-11.32	365.00	12.00	12.00	0.00	
12,775.00	79.38	358.22	12,582.82	389.25	-12.08	389.44	12.00	12.00	0.00	
12,800.00	82.38	358.22	12,586.78	413.92	-12.85	414.12	12.00	12.00	0.00	
12,825.00	85.38	358.22	12,589.45	438.76	-13.62	438.97	12.00	12.00	0.00	
12,850.00	88.38	358.22	12,590.81	463.71	-14.39	463.93	12.00	12.00	0.00	
12,863.54	90.00	358.22	12,591.00	477.24	-14.81	477.46	12.00	12.00	0.00	
LP: Hold 90° Inc at 358.22° Azm - Target: 12591' TVD @ 0' VS w/90° Inc										
12,900.00	90.00	358.22	12,591.00	513.68	-15.94	513.93	0.00	0.00	0.00	
13,000.00	90.00	358.22	12,591.00	613.63	-19.04	613.93	0.00	0.00	0.00	
13,100.00	90.00	358.22	12,591.00	713.59	-22.15	713.93	0.00	0.00	0.00	
13,200.00	90.00	358.22	12,591.00	813.54	-25.25	813.93	0.00	0.00	0.00	
13,300.00	90.00	358.22	12,591.00	913.49	-28.35	913.93	0.00	0.00	0.00	
13,400.00	90.00	358.22	12,591.00	1,013.44	-31.45	1,013.93	0.00	0.00	0.00	



Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 2H
Company:	Chevron	TVD Reference:	KB @ 3202.50usft (Ensign 153)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	KB @ 3202.50usft (Ensign 153)
Site:	Talco 9-26-35	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Plan 1 07-10-14		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.00	90.00	358.22	12,591.00	1,113.39	-34.55	1,113.93	0.00	0.00	0.00
13,600.00	90.00	358.22	12,591.00	1,213.35	-37.65	1,213.93	0.00	0.00	0.00
13,700.00	90.00	358.22	12,591.00	1,313.30	-40.76	1,313.93	0.00	0.00	0.00
13,800.00	90.00	358.22	12,591.00	1,413.25	-43.86	1,413.93	0.00	0.00	0.00
13,900.00	90.00	358.22	12,591.00	1,513.20	-46.96	1,513.93	0.00	0.00	0.00
14,000.00	90.00	358.22	12,591.00	1,613.15	-50.06	1,613.93	0.00	0.00	0.00
14,100.00	90.00	358.22	12,591.00	1,713.10	-53.16	1,713.93	0.00	0.00	0.00
14,200.00	90.00	358.22	12,591.00	1,813.06	-56.27	1,813.93	0.00	0.00	0.00
14,300.00	90.00	358.22	12,591.00	1,913.01	-59.37	1,913.93	0.00	0.00	0.00
14,400.00	90.00	358.22	12,591.00	2,012.96	-62.47	2,013.93	0.00	0.00	0.00
14,500.00	90.00	358.22	12,591.00	2,112.91	-65.57	2,113.93	0.00	0.00	0.00
14,600.00	90.00	358.22	12,591.00	2,212.86	-68.67	2,213.93	0.00	0.00	0.00
14,700.00	90.00	358.22	12,591.00	2,312.82	-71.78	2,313.93	0.00	0.00	0.00
14,800.00	90.00	358.22	12,591.00	2,412.77	-74.88	2,413.93	0.00	0.00	0.00
14,900.00	90.00	358.22	12,591.00	2,512.72	-77.98	2,513.93	0.00	0.00	0.00
15,000.00	90.00	358.22	12,591.00	2,612.67	-81.08	2,613.93	0.00	0.00	0.00
15,100.00	90.00	358.22	12,591.00	2,712.62	-84.18	2,713.93	0.00	0.00	0.00
15,200.00	90.00	358.22	12,591.00	2,812.58	-87.28	2,813.93	0.00	0.00	0.00
15,300.00	90.00	358.22	12,591.00	2,912.53	-90.39	2,913.93	0.00	0.00	0.00
15,400.00	90.00	358.22	12,591.00	3,012.48	-93.49	3,013.93	0.00	0.00	0.00
15,500.00	90.00	358.22	12,591.00	3,112.43	-96.59	3,113.93	0.00	0.00	0.00
15,600.00	90.00	358.22	12,591.00	3,212.38	-99.69	3,213.93	0.00	0.00	0.00
15,700.00	90.00	358.22	12,591.00	3,312.34	-102.79	3,313.93	0.00	0.00	0.00
15,800.00	90.00	358.22	12,591.00	3,412.29	-105.90	3,413.93	0.00	0.00	0.00
15,900.00	90.00	358.22	12,591.00	3,512.24	-109.00	3,513.93	0.00	0.00	0.00
16,000.00	90.00	358.22	12,591.00	3,612.19	-112.10	3,613.93	0.00	0.00	0.00
16,100.00	90.00	358.22	12,591.00	3,712.14	-115.20	3,713.93	0.00	0.00	0.00
16,200.00	90.00	358.22	12,591.00	3,812.09	-118.30	3,813.93	0.00	0.00	0.00
16,300.00	90.00	358.22	12,591.00	3,912.05	-121.41	3,913.93	0.00	0.00	0.00
16,400.00	90.00	358.22	12,591.00	4,012.00	-124.51	4,013.93	0.00	0.00	0.00
16,500.00	90.00	358.22	12,591.00	4,111.95	-127.61	4,113.93	0.00	0.00	0.00
16,600.00	90.00	358.22	12,591.00	4,211.90	-130.71	4,213.93	0.00	0.00	0.00
16,700.00	90.00	358.22	12,591.00	4,311.85	-133.81	4,313.93	0.00	0.00	0.00
16,800.00	90.00	358.22	12,591.00	4,411.81	-136.91	4,413.93	0.00	0.00	0.00
16,900.00	90.00	358.22	12,591.00	4,511.76	-140.02	4,513.93	0.00	0.00	0.00
17,000.00	90.00	358.22	12,591.00	4,611.71	-143.12	4,613.93	0.00	0.00	0.00
17,100.00	90.00	358.22	12,591.00	4,711.66	-146.22	4,713.93	0.00	0.00	0.00
17,157.37	90.00	358.22	12,591.00	4,769.00	-148.00	4,771.30	0.00	0.00	0.00
TD at 17157.37									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
LTP Talco 9-26-35 2H	0.00	0.00	0.00	96.00	-2.98	383,729.00	798,622.02	32° 3' 4.75785 N	103° 22' 10.20983 W
- plan misses target center by 96.05usft at 0.00usft MD (0.00 TVD; 0.00 N, 0.00 E)									
- Point									
BHL Talco 9-26-35 2H	0.00	0.01	12,591.00	4,769.00	-148.00	388,402.00	798,477.00	32° 3' 51.01113 N	103° 22' 11.41005 W
- plan hits target center									
- Point									



Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 2H
Company:	Chevron	TVD Reference:	KB @ 3202.50usft (Ensign 153)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	KB @ 3202.50usft (Ensign 153)
Site:	Talco 9-26-35	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Plan 1 07-10-14		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
12,863.54	12,591.00	Target: 12591' TVD @ 0° VS w/90° Inc		0.00	358.22

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,113.54	12,113.54	0.00	0.00	KOP: 12°/100° Build
12,863.54	12,591.00	477.24	-14.81	LP: Hold 90° Inc at 358.22° Azm
17,157.37	12,591.00	4,769.00	-148.00	TD at 17157.37