

District I
1625 N French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

HOBBS OCD

NOV 13 2012

RECEIVED

Form C-101
Revised August 1, 2011

Permit

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Chevron U S A, Inc. 15 Smith Road Midland, TX 79705		² OGRID Number 4323
⁴ Property Code 310784		³ API Number 30-025-40861
⁵ Property Name MCCLOY RANCH 2 24 32 STATE COM		⁶ Well No. 4H

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	2	24S	32E		100'	S	600'	E	LEA

⁸ Pool Information

TRISTE DRAW; BONE SPRING (96603)

Additional Well Information

⁹ Work Type N	¹⁰ Well Type O	¹¹ Cable/Rotary R	¹² Lease Type S	¹³ Ground Level Elevation 3606' GR
¹⁴ Multiple N	¹⁵ Proposed Depth 14,503'	¹⁶ Formation Bone Spring	¹⁷ Contractor TBD	¹⁸ Spud Date
Depth to Ground water 492'		Distance from nearest fresh water well 2.7 MILES		Distance to nearest surface water 20 MILES

¹⁹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/lb	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17 1/2"	13 3/8"	48#	1300'	1879	0'
Intermediate	11"	8 5/8"	32#	4775'	1977	0'
Production	7 7/8"	5 1/2"	17#	14,503'	2179'	4572'

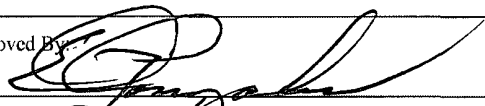
Casing/Cement Program: Additional Comments

NMOCD's forms C-102, C-144(CLEZ) pit permit, well bore diagram, directional planning report are enclosed. There are no known high levels of H2S in this area. However, monitoring of H2S and well readiness will be utilized in the drilling of this well. Requires NSL. Application is for "drill only".

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Shaffer

Permit Expires 2 Years From Approval
Date Unless Drilling Underway
OIL CONSERVATION DIVISION

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐ , a general permit ☐ , or an (attached) alternative OCD-approved plan ☐ .		Approved By: 	
Printed name: Bryan Arrant (Agent)		Title: District Manager	
Title: Regulatory Specialist II		Approved Date: 11-14-2012	Expiration Date: 11-14-2014
E-mail Address: bryan.arrant@chk.com			
Date: 11/10/2012	Phone: (405)935-3782	Conditions of Approval Attached	

NOV 15 2012

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30025 40861	² Pool Code (96603)	³ Pool Name TRISTE DRAW; BONE SPRING
⁴ Property Code 310784	⁵ Property Name MCCLOY RANCH 2 24 32 STATE COM	
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON USA, INC.	⁶ Well Number 4H
		⁹ Elevation 3606'

¹⁰ Surface Location

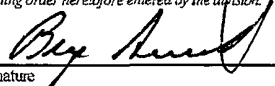
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	2	24 SOUTH	32 EAST, N.M.P.M.		100	SOUTH	660	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	2	24 SOUTH	32 EAST, N.M.P.M.		150	NORTH	660	EAST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16 PROPOSED BOTTOM HOLE LOCATION X= 714,797 NAD 27 Y= 456,591 LAT. 32.253374 LONG. 103.638517 X= 755,981 NAD83 Y= 456,650 LAT. 32.253498 LONG. 103.638999 MCCLOY RANCH 2 24 32 STATE COM 4H X= 714,844 NAD 27 Y= 451,579 LAT. 32.239597 LONG. 103.638470 X= 756,028 NAD83 Y= 451,638 LAT. 32.239720 LONG. 103.638951 ELEVATION +3606' NAVD 88	Project Area Producing Area N 00°32'14"W 5012.33' Projected Penetration Point 330' FSL & 660' FEL 660' 150' 100' 660'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  11/10/2012 Signature Date Bryan Arrant (Agent) Printed Name bryan.arrant@chk.com E-mail Address 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Nov 9 2012 W.M. J. DANIEL III NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR #15078 Date of Survey Signature and Seal of Registered Surveyor #15078 Certificate Number
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ELG 11-14-2012

LEGEND

- Proposed Well
- Section Line
- - - Existing Pipeline

R 32 E

FOR THE EXCLUSIVE USE OF
CHEVRON USA, INC.

I, WM. J. Daniel III, Registered Professional
Land Surveyor, do hereby state this plat is true
and correct to the best of my knowledge.



WM. J. Daniel III
Registration No. 15078

Section 2

Bureau of Land Management

PROPOSED PAD
±2.27 Acres

Existing Pipeline

Existing Road

T
24
S

Section 11

Bureau of Land Management

PROPOSED
ARCHAEOLOGICAL AREA
±6.00 Acres

Mccloy Ranch
2-24-32 State Com
No. 4H Well
FSL=100'
FEL=660'

PROPOSED
ACCESS ROAD
14' X ±121'
±0.04 Acres
±7.33 Rods

NOTE:
PLEASE BE ADVISED, THAT WHILE REASONABLE EFFORTS ARE MADE TO LOCATE AND VERIFY PIPELINES AND ANOMALIES
USING OUR STANDARD PIPELINE LOCATING EQUIPMENT, IT IS IMPOSSIBLE TO BE 100% EFFECTIVE. AS SUCH, WE ADVISE
USING CAUTION WHEN PERFORMING WORK AS THERE IS A POSSIBILITY THAT PIPELINES AND OTHER HAZARDS, SUCH AS
FIBER OPTIC CABLES, PVC PIPELINES, ETC. MAY EXIST UNDETECTED ON SITE.

MANY STATES MAINTAIN INFORMATION CENTERS THAT ESTABLISH LINKS BETWEEN THOSE WHO DIG (EXCAVATORS) AND
THOSE WHO OWN AND OPERATE UNDERGROUND FACILITIES (OPERATORS). IT IS ADVISABLE AND, IN MOST STATES, LAW, FOR
THE CONTRACTOR TO CONTACT THE CENTER FOR ASSISTANCE IN LOCATING AND MARKING UNDERGROUND UTILITIES. NEW
MEXICO ONE CALL, <http://www.nmoncall.org/>.

DISCLAIMER: AT THIS TIME, FENSTERMAKER & ASSOCIATES, INC. HAS NOT PERFORMED NOR WAS ASKED TO PERFORM ANY
TYPE OF ENGINEERING, HYDROLOGICAL MODELING, FLOOD PLAIN, OR "NO RISE" CERTIFICATION ANALYSES, INCLUDING BUT
NOT LIMITED TO DETERMINING WHETHER THE PROJECT WILL IMPACT FLOOD HAZARDS IN CONNECTION WITH FEDERAL, STATE,
AND/OR LOCAL LAWS, ORDINANCES AND REGULATIONS. ACCORDINGLY, FENSTERMAKER MAKES NO WARRANTY OR
REPRESENTATION OF ANY KIND AS TO THE FOREGOING ISSUES, AND PERSONS OR ENTITIES USING THIS INFORMATION SHALL
DO SO AT THEIR OWN RISK.

NW ARCH. AREA CRN.	
X=	714,544 NAD 27
Y=	451,854
ELEVATION +3608' NAVD 88	
NE ARCH. AREA CRN.	
X=	715,144 NAD 27
Y=	451,854
ELEVATION +3609' NAVD 88	
SE ARCH. AREA CRN.	
X=	715,144 NAD 27
Y=	451,254
ELEVATION +3605' NAVD 88	
SW ARCH. AREA CRN.	
X=	714,544 NAD 27
Y=	451,254
ELEVATION +3603' NAVD 88	
NW PAD CRN.	
X=	714,678 NAD 27
Y=	451,701
ELEVATION +3608' NAVD 88	
NE PAD CRN.	
X=	715,008 NAD 27
Y=	451,705
ELEVATION +3608' NAVD 88	
SE PAD CRN.	
X=	715,011 NAD 27
Y=	451,405
ELEVATION +3608' NAVD 88	
SW PAD CRN.	
X=	714,681 NAD 27
Y=	451,402
ELEVATION +3605' NAVD 88	

MCCLOY RANCH 2-24-32 STATE COM NO. 4H WELL	
X=	714,844 NAD 27
Y=	451,579
LAT.	32.239597
LONG.	103.638470
X=	756,028 NAD83
Y=	451,638
LAT.	32.239720
LONG.	103.638351
ELEVATION +3606' NAVD 88	

SURFACE USE PLAT

Scale: 1"=200'

200' 0 100' 200'

CHEVRON USA, INC.

PROPOSED PAD & ACCESS ROAD

MCCLOY RANCH 2-24-32 STATE COM NO. 4H WELL

SECTIONS 2 & 11, T24S-R32E

LEA COUNTY, NEW MEXICO



135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

DRAWN BY: BMO

REVISIONS

PROJ. MGR.: DBM

No. 1

DATE: 11/08/2012

REVISED BY: BMO

DATE: JUNE 7, 2012

No.

DATE:

REVISED BY:

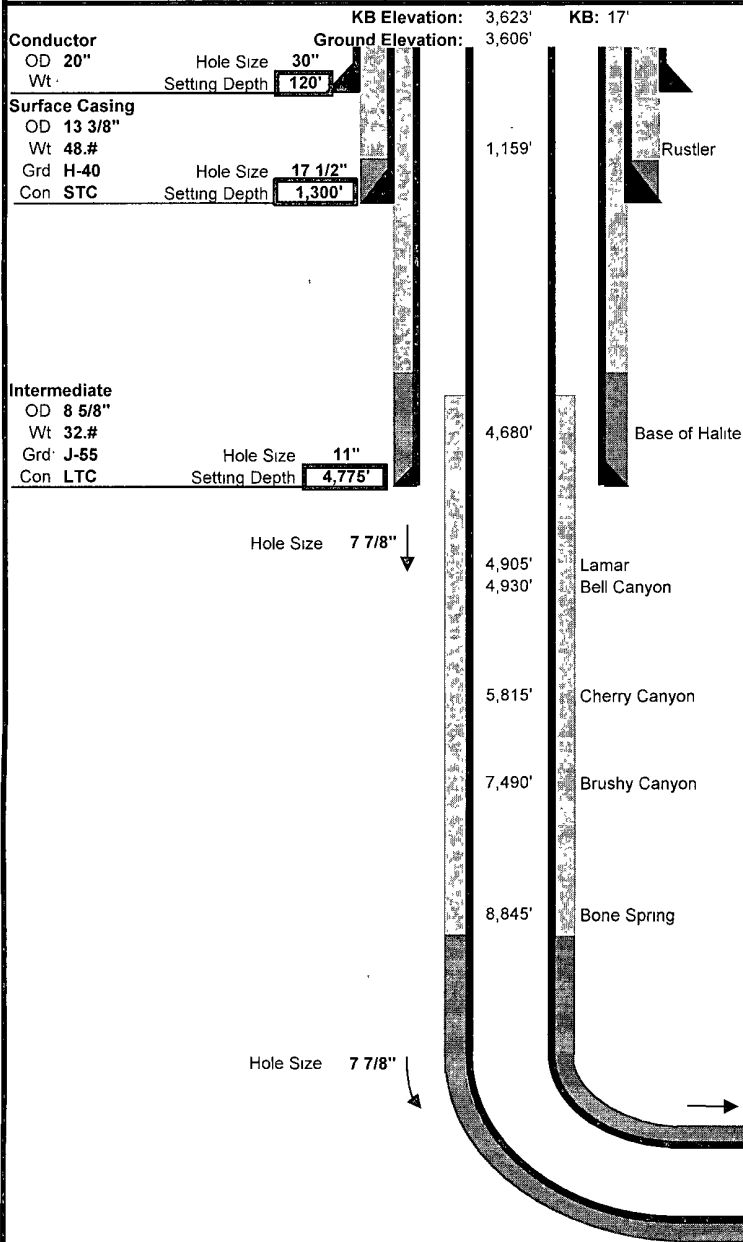
FILENAME: T:\2012\124797\DWG\ICUI_McCloy Ranch 2-24-32 State Com 4H_SUP.dwg



Drilling Engineer: Chris Gray
Superintendent: Daniel Gipson
Geologist: Corey Dimond

Well Name: McCloy Ranch 2-24-32 State Com 4H
Target: Lower Avalon
County, State: Lea, NM
Surface Location: 100' FSL 660' FEL, Section 2, Township 24S, Range 32 E
BH Location: 150' FNL 660' FEL, Section 2, Township 24S, Range 32 E
SHL Latitude: 32 239597 SHL North: 451579
SHL Longitude: -103 638470 SHL East: 714844
BHL Latitude: 32 253374 BHL North: 456591
BHL Longitude: -103 638517 BHL East: 714797
Coordinates: NAD 27 Coordinates: NMSPCE

Drilling Rig: Trinidad 110
Directional: Phoenix
Drilling Mud: Nova
Cement: Schlumberger
Wellhead: Sunbelt
Property Number: ???
AFE Number: 172703



Wellhead Equipment	
A Section	13-3/8" x 13-5/8" 5K SOW
B Section	13-5/8" 5K x 11" 5K
C Section	11" 5K X 7-1/16" 10K w/10k gate valve
D Section	N/A
Required BOP Stack	11" 5K- Double, Annular, Rot Head w/orbit valve

Mud				
Depth	Type	Weight	F. Vis	FL
0' - 1,300'	Spud Mud	8 4 - 8 7	32 - 34	NC - NC
1,300' - 4,775'	Brine	9 5 - 10 1	28 - 29	NC - NC
4,775' - 9,218'	FW/Cut Brine	8 3 - 9 5	28 - 29	NC - NC
9,218' - 9,972'	Cut Brine	8 3 - 9 5	32 - 36	15 - 25
9,972' - 14,503'	FW/Cut Brine	8 3 - 9 5	28 - 29	NC - NC

Cement							
Slurry	Top	Btm	Wt	Yld	%Exc	Bbl	Sx
Surface							
Lead	0'	1,200'	13 7	1 65	250	489	1666
Tail	1,200'	1,300'	14 8	1 33	250	50	213
Intermediate							
Lead	0'	4,275'	12 0	1 99	250	582	1641
Tail	4,275'	4,775'	14 2	1 37	250	82	336
Production							
Lead	4,275'	9,218'	12 4	2 19	100	290	744
Tail	9,218'	14,503'	14 5	1 28	100	327	1435

LOGS	Type	Logs	Interval	Vendor
	OH	Triple Combo	Base of Curve to Int Csg	TBD
	LWD	MWD Gamma	Curve and Lateral	Phoenix

Directional Plan						
Target Line:	9700' @ 0' VS w/90 5 deg inclination					
Target Window:	20' above, 20' below, 50' left, 50' right					
	MD	INC	AZM	TVD	VS	DLS
KOP	9,218'	0 00	0 00	9,218'	0'	0 00
EOB	9,972'	90 50	359 46	9,696'	482'	12 00
TD	14,503'	90 50	359 46	9,656'	5,012'	0 00
Hardlines:	Lateral- 330' from parallel lease lines Vertical- Actual Lease Lines					
Notes:	Please note SHL and BHL distance from lease lines					

Project: NM- Lea- Avalon
Site: McCloy Ranch 2-24-32 ST COM 4H
Well: Well #1
Wellbore: Wellbore #1
Design: Plat

PROJECT DETAILS: NM- Lea- Avalon

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001

