OCD Hobbs

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
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.

***SUBMIT IN TRIPLICATE** – Other instructions on page 2.*

5. Lease Serial No.
NM-24161

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
KEEL A FEDERAL #4

2. Name of Operator
CHEVRON U.S.A. INC.

9. API Well No.
30-025-33499

3a. Address
15 SMITH ROAD
MIDLAND, TEXAS 79705

3b. Phone No. *(include area code)*
432-687-7375

10. Field and Pool or Exploratory Area
YOUNG; SAN ANDRES, SOUTH
Young Greenburg South

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
1980' FSL, & 800' FEL, SECTION 33, T-18S, R-32E UL: I

11. Country or Parish, State
LEA COUNTY, NEW MEXICO

12. CHECK THE 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
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other ADD PERFS + DHC
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 recomplete 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

CHEVRON U.S.A. INC. INTENDS TO ADD PAY IN THE SUBJECT WELL & ACIDIZE.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAM, & C-144 INFO FOR THE NMOCD.

RECEIVED
DEC 08 2010
HOBBSOCD

APPROVED
DEC 4 2010
JAMES A. AMOS
SUPERVISOR-EPS

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
DENISE PINKERTON

Title REGULATORY SPECIALIST

Signature Denise Pinkerton

Date 11/16/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

PETROLEUM ENGINEER

Title

Date DEC 16 2010

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

y person knowingly and willfully to make to any department or agency of the United States any false, iction.

Oil Conservation Division

Conditions of approval : Approval for drilling/workover ONLY--- CANNOT produce Downhole Commingled until DHC is approved in Santa Fe.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-33499	96416	Young SAN ANDRES South

Property Code	Property Name	Well Number
18733	KEEL "A" FEDERAL	4

OGRID No.	Operator Name	Elevation
4323	CHEVRON U.S.A. INC.	3688

Surface Location

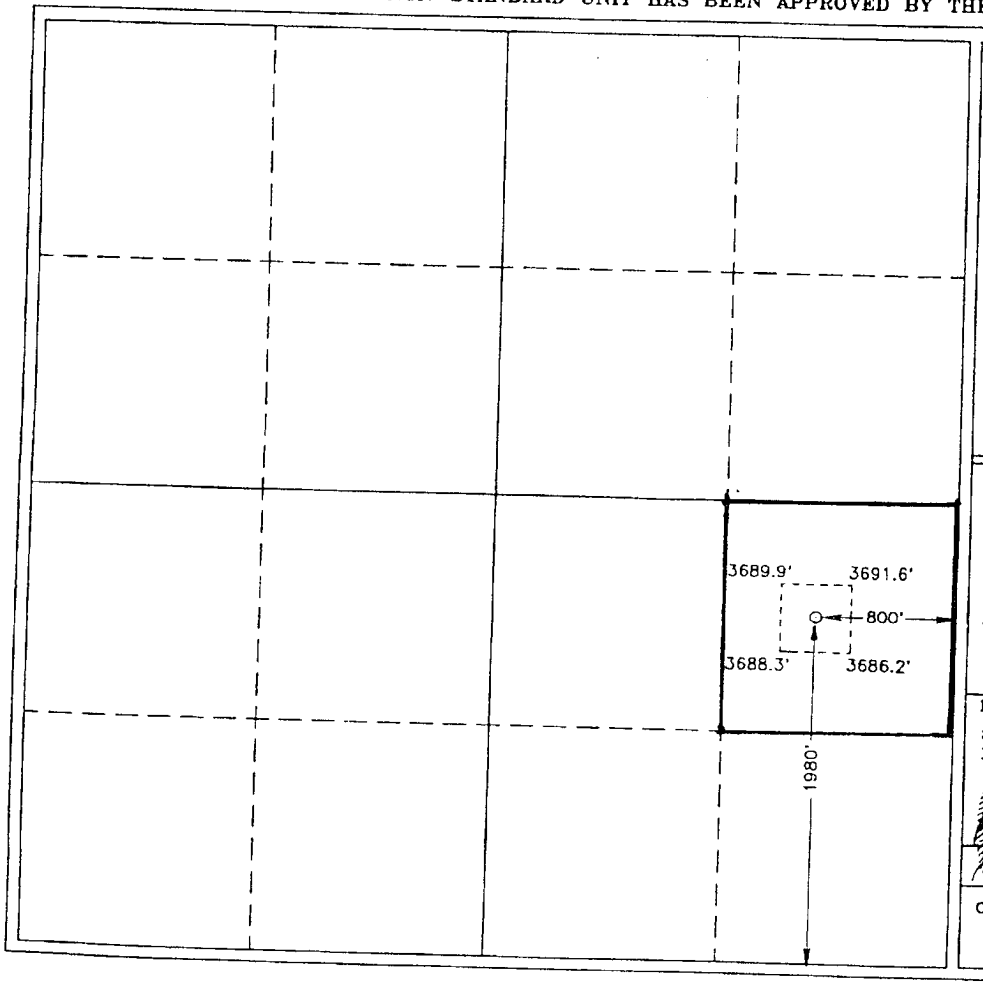
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	33	18 S	32 E		1980	SOUTH	800	EAST	LEA

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

J. K. Ripley
Signature
J. K. RIPLEY
Printed Name
T.A.
Title
5/20/96
Date

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 supervison, and that the same is true and correct to the best of my belief.

MAY 2, 1996
Date Surveyed JLP
Signature & Seal of Professional Surveyor
Ronald J. Eidson 5-03-96
NEW MEXICO 3239 REGISTERED PROFESSIONAL SURVEYOR
W.O. Num. 96-11-0527
Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239
GARY G. EIDSON, 12641

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 July 16, 2010
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-33499	96626	YOUNG; GRAYBURG SOUTH

[4] Property Code	[5] Property Name	[6] Well Number
18733	KEEL A FEDERAL	4

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	

[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
I	33	18-S	32-E		1980	SOUTH	800	EAST	LEA

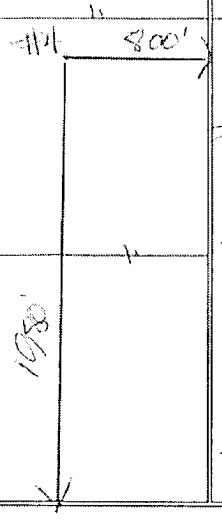
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
40			

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



[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.

Denise Pinkerton 12-15-2010
Signature Date

DENISE PINKERTON REGULATORY SPECIALIST
Printed Name

leakejd@chevron.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.

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

Keel A Fed 4

Job: Recompletion
API: 30-025-33499
Lusk North Field
Lea County, NM

Workover Procedure:

1. MIRU PU. Kill well.
2. Pull rods and pump. No rod and pump details. Count rods on TOH and put pump depth on report.
3. ND wellhead. NU BOP.
4. Unset TAC. TOH w/ 2-7/8" tbg. Scanalog tbg. LD bad jts.
5. TIH w/ 4-3/4" MT bit on 2-7/8" J-55 workstring and clean out to 5600', 300' of fill is acceptable. Notify Remedial Engineer if > 300' of fill is tagged.
6. TOH.
7. TIH w/ 5-1/2" compression set treating pkr and SN on top of pkr on 2-7/8" workstring w/ 310' of tailpipe to ~5280' (pkr @ `4970').
8. Set pkr. Drop SCV. Open bypass on pkr. Pump 60 BFW down tbg to check SCV.
9. Pump 900 gallons of Petroplex X-25. Spot 200 gal from 5280'-5005' in annulus. Close pkr bypass.
10. Squeeze remaining 700 gallons of Petroplex X-25 into formation. Displace tbg w/ FW. SI over night.
11. Swab back load.
12. Retrieve SCV on swab line.
13. Release packer. Spot 1,000 gallons of acetic acid (Use swab data for spot calculations).
14. TOOH w/ 2 7/8" WS and 5 ½" packer.
15. RU WL. RIH w/ perf gun (include gamma ray gun) and perforate the 5 ½" casing using full lubricator w/ 3-3/8" guns, 0.42" hole, 48.24" penetration, w/ 2 JSPF @ 120 degrees phasing as follows: 4596'-4601', 5272'-5286', 5291'-5306', 5311'-5313', 5316'-5326'. Correlate depths w/ Schlumberger Platform Express Compensated Neutron Litho-Density Gamma Ray log dated 22-JUL-1996.
16. POH w/ perf gun. RD WL.
17. RIH w/ 5-1/2" treating pkr while hydro testing 2-7/8" work string to 5500 psi
18. Set packer @ +/- 4500'. Load and test backside to 500 psi. RU flowback manifold an open top tank.
19. MI RU Schlumberger. Hold 500 psi csg pressure, monitor throughout the job. Pump down 2-7/8" WS and acidize all perfs with 10,000 gallons of 20% HCL acid w/ nitrogen foam as per

Schlumberger procedure. Rate: 8 BPM and Maximum Surface Pressure: 5000 psi. Displace acid with 75% quality Nitrogen and 2% KCL to bottom perf.

20. Shut-in for one hour.
21. Flowback load, report flowing pressure, rates, and volumes on report.
22. POOH w/ 2-7/8 work string and packer.
23. RIH w/ 2-7/8" J55 production tbg and set TAC per ALCR.
24. ND BOP. NU wellhead
25. RIH w/ pump and rods and set per ALCR.
26. RDMO PU.
27. Turn well over to production. Return to Production.
28. Report production tests.

Contacts:

Ivan Pinney - Remedial Engineer (281-796-9252)
Carlos Valenzuela – ALCR (Cell: 575-390-9615)
Edgar Acero – Production Engineer (432-687-7343 / Cell: 432-230-0704)
Joe Moroney - Baker Hughes (432-230-7373)
Steve Pendleton – Petroplex (432-556-4211)
Chucks Ezeokonkwo – Schlumberger (432-571-4600)

Foam / Air Cleanout Procedure

1. **Review All JSA's associated with work. Ensure exclusion zones are identified and communicated to all personnel. All lines must be hobbled.**
2. Install flowback manifold with two chokes. All components on flowback manifold must be rated to at least 3,000 psi. Flowback manifold components should be hydrotested before delivery. Recommend mandating proof of testing from vendor.
3. Install flowback tank downwind from rig.
4. Ensure there is a Near Bit Float (If not consult with the engineer to TOOH to install)
5. Install test plug in wellhead. Close pipe rams and pressure test pipe rams and connection between BOP and wellhead to 250 psi/2,000 psi. Bleed off pressure.
6. Open pipe rams and close annular. Pressure test annular to 250/1,500 psi. Bleed off pressure. Open annular. Remove test plug.
7. NU stripper head with **NO Outlets** (Check stripper cap for thread type – course threads preferred). **Stripper head to be stump tested to 1,000 psi before being delivered to rig. Ensure stump test documentation can be provided upon arrival.**

8. RIH to +/-4250 RU foam air unit. Install float at surface before beginning to pump. Break circulation with foam/air. Evacuate fluid from well.

   Clear floor of all personnel while breaking circulation and any time they are not required. Pump high quality foam at all times. Do not pump dry air at any time. Fluid injection rates will generally be above 12 gallons per minute.

   Whenever there is pressure on the stripper head, have a dedicated person continuously monitor pressure at choke manifold and have a dedicated person at accumulator ready to close annular BOP in case stripper leaks. Do not allow pressure on stripper head to exceed 500 psi. If pressure cannot be controlled below 500 psi, stop pumping, close BOP and bleed off pressure.

9. Strip in hole until tag.
10. Rig up power swivel. Break circulation with foam/air. Install float at surface before beginning to pump. Cleanout as per original procedure. Circulate hole clean.
11. Kill tubing and casing using Brine water. If needed.
12. POOH LD workstring and bit. Brine water down tubing to put tubing on vacuum to help eliminate trapped pressure before breaking out string floats. **Have foam-air hand on location during this process.**
13. ND Stripper and flowback manifold.
14. Resume original procedure.

Keel A Federal #4 Wellbore Diagram

Created:	07/26/10 By:	Well #:	4 Fd./St. #:
Updated:	07/26/10 By:	API	30-025-33499
Lease:	Keel A Federal	Surface	Tshp/Rng: S-18 & E-32
Field:	Lusk North - San Andres	Unit Ltr.:	G Section: 33
Surf. Loc.:	I-33-18S-32E 1980 FSL 800 FEL	Bottom hole	Tshp/Rng: S-18 & E-32
Bot. Loc.:	I-33-18S-32E 1980 FSL 800 FEL	Unit Ltr.:	Section:
County:	Lea St.: NM	Directions:	Carlsbad, NM
Status:	Active Oil Well	Chevno:	BI1819

Surface Casing

Size:	8 5/8
Wt., Grd.:	24#
Depth:	1,260
Sxs Cmt:	650
Circulate:	Yes
TOC:	Surface
Hole Size:	12 1/4

Production Casing

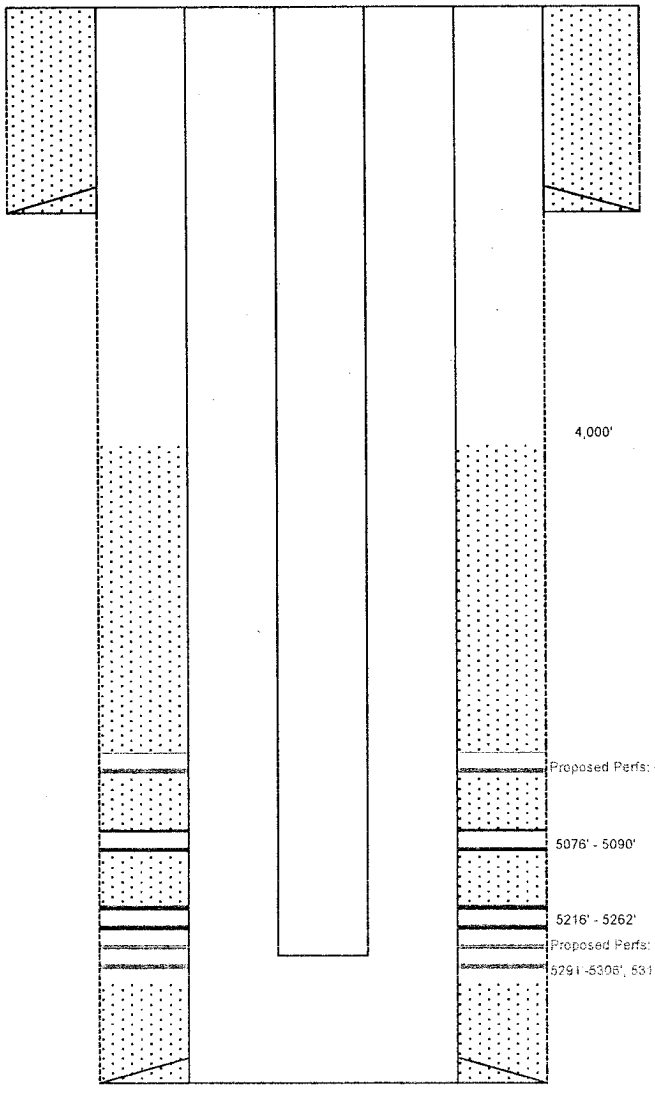
Size:	5 1/2
Wt., Grd.:	15.5#
Depth:	5,900
Sxs Cmt:	425
Circulate:	No
TOC:	4,000
Hole Size:	7 7/8

Tubing

Type:	J-55 External Upset
Wt.,Grd.:	6.40#
Depth:	5,305
OD:	2.875
ID:	2.441

Perforations

5076-5090
5216-5262



PBTD: 5,900
TD: 5,900

KB:
DF:
GL: 3,688
Ini. Spud: 07/06/96
Ini. Comp.: 07/31/96

History

7/31/96 Ini Comp: Perf 5076-5090,5216-5262, acid 6000 gls 15% HCl 180 RCNB, 2 7/8 tbg, pkr 5300.

8/18/05: Cut paraffin, tally tbg. test tbg in hole @ 5000 psi. Acdz 5216-62' w/ 4000 gal Resisol & 1000 gal 15% anti-sludge.

Geology - Tops

Yates	2,788
Seven Rivers	3,342
Queen	3,874
Grayburg	4,406
San Andres	4,891
Delaware	5,230
Bone Spring	7,062
Wolfcamp	10,312
Cisco/Canyon	10,869
Strawn	11,515
Atoka	11,876

Chevron U.S.A. Inc. Wellbore Diagram : KEEL A FED 4