

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., 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 and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-045-32765
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name TECUMSEH
8. Well Number #1E
9. OGRID Number 20208
10. Pool name or Wildcat Basin Dakota-Blanco Mesa Verde

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	
2. Name of Operator SAN JUAN RESOURCES OF CO.	
3. Address of Operator c/o Walsh Engineering 7415 East Main Street, Farmington, NM 87402	
4. Well Location Unit Letter L 1470' feet from the South line and 1095' feet from the West line Section 18 Township 30N Range 11W NMPM County San Juan	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5538' GR	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____	
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: Frac Report ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: *Free* ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

07/18/05 San Juan Resources of Colorado, fraced the Tecumseh #1E per the attached treatment report



I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE *Paul C. Thompson* TITLE *AGENT* DATE 09/15/05

Type or print name Paul C. Thompson, P.E. E-mail address: paul@walsheng.net Telephone No. 505-327-4892

For State Use Only

APPROVED BY: *Chah* TITLE SUPERVISOR DISTRICT # 3 DATE SEP 20 2005
Conditions of Approval (if any):

FRACTURE TREATMENT REPORT

Operator: San Juan Resources of Colorado Well Name: Tecumseh #1E
Date: 21-Aug-05
Field: Basin Dakota - Blanco Mesa Verde Location: 18/30N/11W County: San Juan State: NM
Stimulation Company: Halliburton Supervisor: Paul Thompson

Stage #: 3/3 Mesa Verde

Sand on location: Design: 120,000# Weight ticket: 121,440 Size/type: 20/40 Brady

Fluid on location : No. of Tanks : 5 Strap: 20' Amount: 2000 Usable: 1,800

Perforations: Depth: 4203 - 4284 Total Holes: 15 PBTD: 4370' KB
Re-perfed the same zones
Shots per foot: 1 spf selectfire EHD: 0.34" Composite frac plug

Breakdown: Acid: 1000 gal fo 15% HCl Formation broke at 3600 psi
Balls: 45 7/8" 1.3 sp.gr Pressure was down to 600 psi with the acid on.
Balled off to 4200 psi.
Recovered 45 balls with 26 hits.
Pressure: 1200 psi Rate: 8.1 BPM

Stimulation: ATP: 2000 psi AIR: 50 BPM
MTP: 2380 psi MIR: 62 BPM

	Sand Stage	Pressure	Rate	BHTP	Foam Quality
ISIP: 1828	pad	1972	47.2	1633	57.2
5 min: 1347	1 ppg	2044	50	1706	60.4
10 min:	1.5 ppg	2111	49	1859	59.2
15 min:	2 ppg	2293	46.4	2260	57
	3 ppg				

Job Complete at: 1340 hrs. Date: 8/21/2005 Start flow back: 1600 hrs
with 1315 psi.
Total Fluid Pumped: 1032 bbls
Total Sand Pumped: 120,000 Total Sand on Formation: 120,000
Total Nitrogen Pumped: 978,268 SCF

Notes:

All frac fluid was 2% KCl Aztec city water with biocide, surfactant, foamer, and friction reducer. Nolte plot was positive throughout the sand stages, but was starting to increase at a slope of 1.0 during the 2 ppg stage. Did not attempt to go to the 3 ppg stage. Frac valve was leaking slightly so shut in the well after a 5 min. SI period. The frac gradient based on the ISIP was 0.87 psi/ft.

FRACTURE TREATMENT REPORT

Operator: San Juan Resources of Colorado Well Name: Tecumseh #1E
Date: 18-Jul-05
Field: Basin Dakota - Blanco Mesa Verde Location: 18/30N/11W County: San Juan State: NM
Stimulation Company: Halliburton Supervisor: Paul Thompson

Stage #: 3/3 Mesa Verde

Sand on location: Design: 120,000# Weight ticket: 130,800 Size/type: 20/40 TLC

Fluid on location: No. of Tanks: 8 Strap: Amount: Usable: 42,000

Perforations:

Depth: 4203 - 4284 Total Holes: 15 PBTD: 4406'
Shots per foot: 1 spf selectfire EHD: 0.34"
Frac Plug

Breakdown:

Acid: None
Balls: None
Pressure: Rate:

Stimulation:

ATP: AIR:
MTP: MIR:

	Sand Stage	Pressure	Rate	BHTP
ISIP:	pad			
5 min:	1 ppg			
10 min:	2 ppg			
15 min:	3 ppg			
	4 ppg			

Job Complete at: 1800 hrs. Date: 7/18/2005 Start flow back: 2200 hrs
Total Fluid Pumped: 15 with 250 psi
Total Sand Pumped: Total Sand on Formation:
Total Nitrogen Pumped: None

Notes:

Initial pressure was 531 psi. Could not get Mesa Verde to break down at 4200 psi. Pressure would fall back to 1000 psi in two minutes but could not establish an injection rate at 1 BPM. Did not pump the acid or ball off.

FRACTURE TREATMENT REPORT

Operator: San Juan Resources of Colorado Well Name: Tecumseh #1E
Date: 18-Jul-05
Field: Basin Dakota - Blanco Mesa Verde Location: 18/30N/11W County: San Juan State: NM
Stimulation Company: Halliburton Supervisor: Paul Thompson

Stage #: 2/3 Lower Dakota

Sand on location: Design: 60,000# Weight ticket: 130,800 Size/type: 20/40 TLC

Fluid on location: No. of Tanks: 8 Strap: Amount: Usable:

Perforations: Depth: 6388- 6410, 6428 - 34 Total Holes: 84 PBTD: 6450'
Shots per foot: 3 spf EHD: 0.34" Frac Plug

Breakdown: Acid: None
Balls: None
Pressure: Rate:

Stimulation: ATP: 3200 psi AIR: 34.3 BPM Break at 3680 psi
MTP: 4150 psi MIR: 35.1 bpm

	Sand Stage	Pressure	Rate	BHTP
ISIP: 3924	pad	2838	34.5	4685
5 min: 2692	1 ppg	2632	34.5	4590
10 min: 1995	2 ppg	2555	34.4	4674
15 min: 1650	3 ppg	2744	34.3	5004
	4 ppg	3474	34.3	5859

Job Complete at: 1020 hrs. Date: 7/18/2005 Start flow back: 2200 hrs
250 psi
Total Fluid Pumped: 836 bbls
Total Sand Pumped: 65,000 Total Sand on Formation: 65,000#
Total Nitrogen Pumped: None

Notes:

All frac fluid was 2% KCl and City water with biocide and Delta 200 fluid with, crosslinker, surfactant, and ammonium persulfate breaker. The frac gradient based on the ISIP was 1.04 psi/ft Nolte plot was positive with a 1.0 slope throughout the sand stages.

FRACTURE TREATMENT REPORT

Operator: San Juan Resources of Colorado Well Name: Tecumseh #1E
Date: 18-Jul-05
Field: Basin Dakota - Blanco Mesa Verde Location: 18/30N/11W County: San Juan State: NM
Stimulation Company: Halliburton Supervisor: Paul Thompson

Stage #: 1/3 Lower Dakota

Sand on location: Design: 60,000# Weight ticket: 130,800 Size/type: 20/40 TLC

Fluid on location : No. of Tanks: 8 Strap: 20 Amount: 3200 Usable: 2880

Perforations:
Depth: 6478 - 92, 6497 - 6509' Total Holes: 78 PBTD: 6575'
Shots per foot: 3 spf EHD: 0.34"

Breakdown:
Acid: None
Balls: None
Pressure: Rate:

Stimulation:
ATP: 2150 psi AIR: 34.5 BPM Break at 4200 psi
MTP: 4200 psi MIR: 35 BPM

	Sand Stage	Pressure	Rate	BHTP
ISIP: 1622	pad	2446	35.0	4254
5 min: 1379	1 ppg	2207	34.5	4162
10 min: 1245	2 ppg	2062	34.5	4133
15 min: 1130	3 ppg	2004	35.0	4199
	4 ppg	1941	34.9	4255

Job Complete at: 1640 hrs. Date: 7/18/2005 Start flow back: 2200 hrs
250 psi
Total Fluid Pumped: 921 bbls
Total Sand Pumped: 65,000 Total Sand on Formation: 65,000#
Total Nitrogen Pumped: None

Notes:

All frac fluid was 2% KCl and City water with biocide and Delta 200 fluid with, crosslinker, surfactant, and ammonium persulfate breaker. The frac gradient based on the ISIP was 0.69 psi/ft Nolte plot was relatively flat through the sand stages.