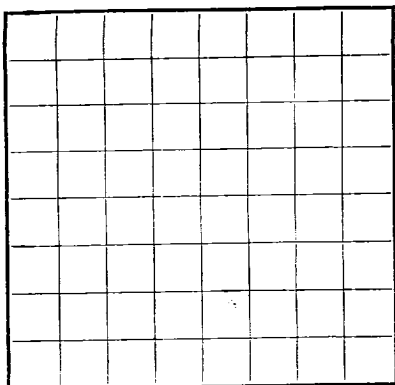
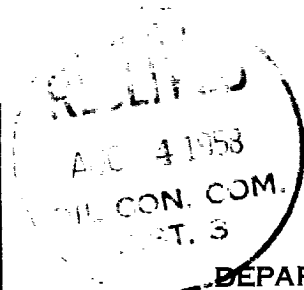


U. S. LAND OFFICE _____
SERIAL NUMBER 07553
LEASE OR PERMIT TO PROSPECT _____

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Products Co. Address P. O. Box 145, Farmington, New Mexico
Lessor or Tract Unava Field Undesignated State New Mexico
Well No. 4-1 Sec. 32 T. 47N R. 12W Meridian NMP County San Juan
Location 550 ft. N. of 5 Line and 200 ft. E. of 12 Line of Section 32 Elevation 5014'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____

ORIGINAL SIGNED BY: JOSEPH E. KREGER

Date July 22, 1953Title Petroleum Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling May 17, 1953 Finished drilling May 26, 1953

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 577' to 604' No. 4, from _____ to _____
No. 2, from 615' to 622' No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10-3/4"	32.7	P.S.	P.S.	101	Baker				Surface casing
8-1/2"	15.70	3 Ra.	J-55	5102	Baker		597'	602'	From Casing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	173'	125	Circulated		
8-1/2"	115'	300	Single stage		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material 4 1/2" 100 lb. 1014" Size 2-3/4" x 1-1/2" set at 1000'

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 519 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____ June 17, 1953 Put to producing July 2, 1953The production for the first 24 hours was 21 barrels of fluid of which 0% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity 86.0 API _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	415	415	Kirtland Form. Gy. sh. mod. with tight gy. F. ss.
415	475	475	Fruitland Form. Gy. carb. sh., seat. coals, coals & gy. tight F. ss.
475	1057	582	Pictured Cliffs Form. Gray, f. sh., tight, vari-colored soft ss.
1057	1257	720	Lewis Form. Gy. to white ss. sh. w/ silty to shaley ss. breaks.
1257	1715	1161	Nasa Verde Form. Gy., F. sh. ss. silty ss., carb. shale and coal.
1715	2019	1301	Point Lookout Form. Gy., v. m. silty ss. w/frequent shale breaks.
2019	2723	1704	Mancos Form. Gy. carb. sh.
2723	3115	2222	Gallup Form. sh. gy. to brn. sh. carb. micaceous glauconitic. Very m. gr. ss. w/ irreg. interbedded shale.
			TOPS AND FROM ELECTRIC LOGS AND RADIOACTIVITY LOGS.

FORMATION RECORD—Continued

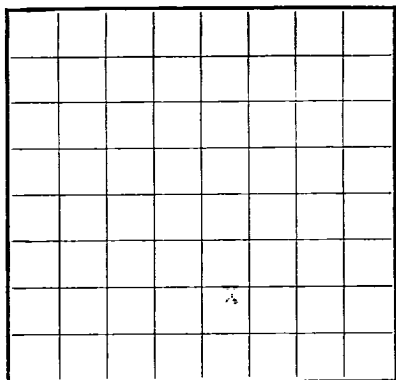
[illegible]

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been abandoned, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

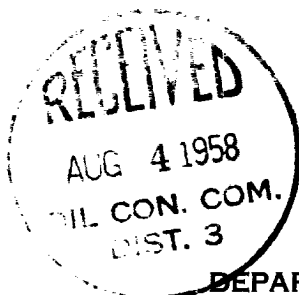
HISTORY OF OIL OR GAS WELL

cannot be turned party interval 4974-5007; 4016-4027 (2 sets) with 35,900 pairs. oil & 40,000 sand, 1154-1155. oil, 1154-1155. 1156-1157. 1158-1159. 1160-1161. 1162-1163. 1164-1165. 1166-1167. 1168-1169. 1170-1171. 1172-1173. 1174-1175. 1176-1177. 1178-1179. 1180-1181. 1182-1183. 1184-1185. 1186-1187. 1188-1189. 1190-1191. 1192-1193. 1194-1195. 1196-1197. 1198-1199. 1200-1201. 1202-1203. 1204-1205. 1206-1207. 1208-1209. 1210-1211. 1212-1213. 1214-1215. 1216-1217. 1218-1219. 1220-1221. 1222-1223. 1224-1225. 1226-1227. 1228-1229. 1230-1231. 1232-1233. 1234-1235. 1236-1237. 1238-1239. 1240-1241. 1242-1243. 1244-1245. 1246-1247. 1248-1249. 1250-1251. 1252-1253. 1254-1255. 1256-1257. 1258-1259. 1260-1261. 1262-1263. 1264-1265. 1266-1267. 1268-1269. 1270-1271. 1272-1273. 1274-1275. 1276-1277. 1278-1279. 1280-1281. 1282-1283. 1284-1285. 1286-1287. 1288-1289. 1290-1291. 1292-1293. 1294-1295. 1296-1297. 1298-1299. 1300-1301. 1302-1303. 1304-1305. 1306-1307. 1308-1309. 1310-1311. 1312-1313. 1314-1315. 1316-1317. 1318-1319. 1320-1321. 1322-1323. 1324-1325. 1326-1327. 1328-1329. 1330-1331. 1332-1333. 1334-1335. 1336-1337. 1338-1339. 1340-1341. 1342-1343. 1344-1345. 1346-1347. 1348-1349. 1350-1351. 1352-1353. 1354-1355. 1356-1357. 1358-1359. 1360-1361. 1362-1363. 1364-1365. 1366-1367. 1368-1369. 1370-1371. 1372-1373. 1374-1375. 1376-1377. 1378-1379. 1380-1381. 1382-1383. 1384-1385. 1386-1387. 1388-1389. 1390-1391. 1392-1393. 1394-1395. 1396-1397. 1398-1399. 1400-1401. 1402-1403. 1404-1405. 1406-1407. 1408-1409. 1410-1411. 1412-1413. 1414-1415. 1416-1417. 1418-1419. 1420-1421. 1422-1423. 1424-1425. 1426-1427. 1428-1429. 1430-1431. 1432-1433. 1434-1435. 1436-1437. 1438-1439. 1440-1441. 1442-1443. 1444-1445. 1446-1447. 1448-1449. 1450-1451. 1452-1453. 1454-1455. 1456-1457. 1458-1459. 1460-1461. 1462-1463. 1464-1465. 1466-1467. 1468-1469. 1470-1471. 1472-1473. 1474-1475. 1476-1477. 1478-1479. 1480-1481. 1482-1483. 1484-1485. 1486-1487. 1488-1489. 1490-1491. 1492-1493. 1494-1495. 1496-1497. 1498-1499. 1500-1501. 1502-1503. 1504-1505. 1506-1507. 1508-1509. 1510-1511. 1512-1513. 1514-1515. 1516-1517. 1518-1519. 1520-1521. 1522-1523. 1524-1525. 1526-1527. 1528-1529. 1530-1531. 1532-1533. 1534-1535. 1536-1537. 1538-1539. 1540-1541. 1542-1543. 1544-1545. 1546-1547. 1548-1549. 1550-1551. 1552-1553. 1554-1555. 1556-1557. 1558-1559. 1560-1561. 1562-1563. 1564-1565. 1566-1567. 1568-1569. 1570-1571. 1572-1573. 1574-1575. 1576-1577. 1578-1579. 1580-1581. 1582-1583. 1584-1585. 1586-1587. 1588-1589. 1590-1591. 1592-1593. 1594-1595. 1596-1597. 1598-1599. 1600-1601. 1602-1603. 1604-1605. 1606-1607. 1608-1609. 1610-1611. 1612-1613. 1614-1615. 1616-1617. 1618-1619. 1620-1621. 1622-1623. 1624-1625. 1626-1627. 1628-1629. 1630-1631. 1632-1633. 1634-1635. 1636-1637. 1638-1639. 1640-1641. 1642-1643. 1644-1645. 1646-1647. 1648-1649. 1650-1651. 1652-1653. 1654-1655. 1656-1657. 1658-1659. 1660-1661. 1662-1663. 1664-1665. 1666-1667. 1668-1669. 1670-1671. 1672-1673. 1674-1675. 1676-1677. 1678-1679. 1680-1681. 1682-1683. 1684-1685. 1686-1687. 1688-1689. 1690-1691. 1692-1693. 1694-1695. 1696-1697. 1698-1699. 1700-1701. 1702-1703. 1704-1705. 1706-1707. 1708-1709. 1710-1711. 1712-1713. 1714-1715. 1716-1717. 1718-1719. 1720-1721. 1722-1723. 1724-1725. 1726-1727. 1728-1729. 1730-1731. 1732-1733. 1734-1735. 1736-1737. 1738-1739. 1740-1741. 1742-1743. 1744-1745. 1746-1747. 1748-1749. 1750-1751. 1752-1753. 1754-1755. 1756-1757. 1758-1759. 1760-1761. 1762-1763. 1764-1765. 1766-1767. 1768-1769. 1770-1771. 1772-1773. 1774-1775. 1776-1777. 1778-1779. 1780-1781. 1782-1783. 1784-1785. 1786-1787. 1788-1789. 1790-1791. 1792-1793. 1794-1795. 1796-1797. 1798-1799. 1800-1801. 1802-1803. 1804-1805. 1806-1807. 1808-1809. 1810-1811. 1812-1813. 1814-1815. 1816-1817. 1818-1819. 1820-1821. 1822-1823. 1824-1825. 1826-1827. 1828-1829. 1830-1831. 1832-1833. 1834-1835. 1836-1837. 1838-1839. 1840-1841. 1842-1843. 1844-1845. 1846-1847. 1848-1849. 1850-1851. 1852-1853. 1854-1855. 1856-1857. 1858-1859. 1860-1861. 1862-1863. 1864-1865. 1866-1867. 1868-1869. 1870-1871. 1872-1873. 1874-1875. 1876-1877. 1878-1879. 1880-1881. 1882-1883. 1884-1885. 1

ORIGINAL SIGNED BY JOSEPH E. KEEGER



LOCATE WELL CORRECTLY

U. S. LAND OFFICE SF
SERIAL NUMBER 073308
LEASE OR PERMIT TO PROSPECT _____UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Products Co. Address P. O. Box 146, Farmington, New Mexico
Lessor or Tract Sullivan Field Undesignated State New Mexico
Well No. 4-F Sec. 32 T. 27N R. 12W Meridian NMPM County San Juan
Location 330 ft. [N] of 2 Line and 2310 ft. [E] of 12 Line of Section 32 Elevation 3914'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____

ORIGINAL SIGNED BY: JOSEPH E. KREGER

Date July 21, 1958Title Petroleum Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling May 17, 1958 Finished drilling May 26, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4974' to 5004' No. 4, from _____ to _____
No. 2, from 5016' to 502' No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10-3/4"	32.7	P.E.	S.W.	161	Baker				Surface Csg.
8-1/2"	15.50	3 Rd.	J-55	2108	Baker		4974'	5022'	Prod. Csg.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	173'	125	Circulated		
8-1/2"	115'	500	Single stage		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material Baker hyd. comp. hole Size 2-3/8" X 8-1/2" set at 1000'

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 5119 feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

June 17, 1958 Put to producing July 26, 1958The production for the first 24 hours was 31 barrels of fluid of which 100% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity 886.0 API 30.1

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	919	919	Kirtland Form. Gy. sh. incl. with tight gy. FG ss.
919	1127	276	Fruitland Form. Gy. carb. sh., scat. coals, coals & gy. tight FG ss.
1127	1337	142	Pictured Cliffs Form. Gray, FG, tight, vari-colored soft ss.
1337	2027	720	Lewis Form. Gy. to white ds. sh. w/silty to shaley ss. breaks.
2027	3715	1684	Mesa Verde Form. Gy., FG, ds. silty ss., carb. shale and coal.
3715	3919	204	Point Lookout Form. Gy., v. m. silty ss. w/frequent shale breaks.
3919	4790	871	Mancos Form. Gy. carb. sh.
4790	5119	329	Gallup Form. Lt. gy. to brn. calc. carb. micaceous glauconitic. Very fm. gr. ss. w/irreg. interbedded shale.
TOPS ARE FROM ELECTRIC LOGS AND RADIOACTIVITY LOGS.			

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

16-48094-2 U. S. GOVERNMENT PRINTING OFFICE

SAFETY OIL, FRAC TURE
sand oil fractured part; Interval 1974-2004; 0.16'-0.2' (2 in./ft.) with
39,900 gal. oil & 40,000# sand; fluid @ 0.40 gal. oil, 1K-43.4 Gals./min.
-ATP-2-0 psi.; BHP-2000 psi.; ATP-2000 psi. injected 7 sets of 16 balls

ORIGINAL SIGNED BY: JOSEPH E. KRAEGER